

PART IV

Section L

Instructions, Conditions, and Notices to Offerors

Table of Contents

L.1	FAR 52.215-1, INSTRUCTIONS TO OFFERORS, COMPETITIVE ACQUISITION (MAY 2001) .	1
L.2	FAR 52.216-1 TYPE OF CONTRACT (APR 1984)	5
L.3	NUMBER OF AWARDS.....	5
L.4	GENERAL 222-S LAB OVERVIEW	5
L.5	PROPOSAL CONTENT/SUBMITTAL DATA	9
L.6	PROPOSAL PREPARATION INSTRUCTIONS, COVER LETTER AND VOLUME I, OFFER AND OTHER DOCUMENTS	10
L.7	PROPOSAL PREPARATION INSTRUCTIONS—TECHNICAL AND MANAGEMENT PROPOSAL	12
L.8	PROPOSAL PREPARATION INSTRUCTIONS, COST AND PERFORMANCE BASED FEE ..	20
L.9	CONTACTS REGARDING FUTURE EMPLOYMENT.....	24
L.10	PRE-PROPOSAL CONFERENCE	24
L.11	FAR 52.222-24, PRE-AWARD ON-SITE EQUAL OPPORTUNITY COMPLIANCE EVALUATION (FEB 1999).....	24
L.12	FAR 52.225-12, NOTICE OF BUY AMERICAN ACT REQUIREMENT—CONSTRUCTION MATERIALS UNDER TRADE AGREEMENTS (MAY 2002).....	24
L.13	DEAR 952.227-84, RIGHT TO REQUEST PATENT WAIVER (FEB 1998).....	25
L.14	FAR 52.233-2, SERVICE OF PROTEST (AUG 1996)/DEAR 952.233-2, SERVICE OF PROTEST	26
L.15	DEAR 952.233-4, NOTICE OF PROTEST FILE AVAILABILITY (SEPT 1996).....	26
L.16	DEAR 952.233-5, AGENCY PROTEST REVIEW (SEPT 1996).....	27
L.17	CONTENT OF RESULTING CONTRACT	27
L.18	DOE ISSUING OFFICE	27
L.19	TIME, DATE, AND PLACE PROPOSALS ARE DUE	27
L.20	SMALL BUSINESS SIZE STANDARDS AND SET-ASIDE INFORMATION	29
L.21	GUIDANCE FOR PROSPECTIVE OFFERORS - IMPACT OF TEAMING ARRANGEMENTS ON SMALL BUSINESS STATUS.....	29
L.22	FALSE STATEMENTS.....	30
L.23	EXPENSES RELATED TO PROPOSAL OR BID SUBMISSIONS	30
L.24	AMENDMENT OF THE SOLICITATION	30
L.25	COMMITMENT OF PUBLIC FUNDS	30
L.26	NOTICE OF LABOR PROVISIONS	31

L.27	RESPONSIBLE PROSPECTIVE CONTRACTORS	31
L.28	DISPOSITION OF PROPOSALS OR BIDS	31
L.29	DISPOSITION OF SOLICITATION DOCUMENTS.....	31
L.30	ALTERNATIVE PROPOSAL INFORMATION.....	31
L.31	AVAILABILITY OF REFERENCED DOCUMENTS.....	31
L.32	NOTICE OF POSSIBLE USE OF NON-FEDERAL EVALUATORS.....	32
L.33	ELECTRONIC MEDIA—SOLICITATION AND AMENDMENT DISTRIBUTION	32
L.34	QUESTIONS ON SOLICITATION	32
L.35	OFFER ACCEPTANCE PERIOD	32
L.36	AVAILABILITY OF REFERENCED DOCUMENTS AND ORGANIZATIONAL INTERNET URL ADDRESS INFORMATION	32
L.37	OFFEROR INTENTION TO SUBMIT AN OFFER	33
	Attachment 1 - DOE Reading Room Contents	34
	Attachment 2 - Standard Resume Format	38
	Attachment 3 - Offeror Past-Performance Reference Information Worksheet and Questionnaire ..	39
	Attachment 4 - ESQ&H Past Performance.....	45
	Attachment 5 - Sample History of Typical Analytical Services Requests.....	47
	Attachment 6 - Sample of Typical Analyses Performed at the Lab	48
	Attachment 7 - Sample of Types and Numbers of Tests Performed in 2003	52
	Attachment 8 - Facilities that are part of the 222-S Laboratory complex and auxiliary buildings ...	57
	Attachment 9 -List of Instruments Currently Available at the 222-S Laboratory	60

L.1 FAR 52.215-1, INSTRUCTIONS TO OFFERORS, COMPETITIVE ACQUISITION (MAY 2001)

(a) *Definitions.* As used in this provision-

"Discussions" are negotiations that occur after establishment of the competitive range that may, at the Contracting Officer's discretion, result in the offeror being allowed to revise its proposal.

"In writing," "writing," or "written" means any worded or numbered expression that can be read, reproduced, and later communicated, and includes electronically transmitted and stored information.

"Proposal modification" is a change made to a proposal before the solicitation's closing date and time, or made in response to an amendment, or made to correct a mistake at any time before award.

"Proposal revision" is a change to a proposal made after the solicitation closing date, at the request of or as allowed by a Contracting Officer as the result of negotiations.

"Time," if stated as a number of days, is calculated using calendar days, unless otherwise specified, and will include Saturdays, Sundays, and legal holidays. However, if the last day falls on a Saturday, Sunday, or legal holiday, then the period shall include the next working day.

(b) *Amendments to solicitations.* If this solicitation is amended, all terms and conditions that are not amended remain unchanged. Offerors shall acknowledge receipt of any amendment to this solicitation by the date and time specified in the amendment(s).

(c) *Submission, modification, revision, and withdrawal of proposals.*

(1) Unless other methods (e.g., electronic commerce or facsimile) are permitted in the solicitation, proposals and modifications to proposals shall be submitted in paper media in sealed envelopes or packages (i) addressed to the office specified in the solicitation, and (ii) showing the time and date specified for receipt, the solicitation number, and the name and address of the offeror. Offerors using commercial carriers should ensure that the proposal is marked on the outermost wrapper with the information in paragraphs (c)(1)(i) and (c)(1)(ii) of this provision.

(2) The first page of the proposal must show-

- (i) The solicitation number;
- (ii) The name, address, and telephone and facsimile numbers of the offeror (and electronic address if available);

- (iii) A statement specifying the extent of agreement with all terms, conditions, and provisions included in the solicitation and agreement to furnish any or all items upon which prices are offered at the price set opposite each item;
 - (iv) Names, titles, and telephone and facsimile numbers (and electronic addresses if available) of persons authorized to negotiate on the offeror's behalf with the Government in connection with this solicitation; and
 - (v) Name, title, and signature of person authorized to sign the proposal. Proposals signed by an agent shall be accompanied by evidence of that agent's authority, unless that evidence has been previously furnished to the issuing office.
- (3) Submission, modification, revision, and withdrawal of proposals.
 - (i) Offerors are responsible for submitting proposals, and any modifications or revisions, so as to reach the Government office designated in the solicitation by the time specified in the solicitation. If no time is specified in the solicitation, the time for receipt is 4:30 p.m., local time, for the designated Government office on the date that proposal or revision is due.
 - (ii)
 - (A) Any proposal, modification, or revision received at the Government office designated in the solicitation after the exact time specified for receipt of offers is "late" and will not be considered unless it is received before award is made, the Contracting Officer determines that accepting the late offer would not unduly delay the acquisition; and-
 - (1) If it was transmitted through an electronic commerce method authorized by the solicitation, it was received at the initial point of entry to the Government infrastructure not later than 5:00 p.m. one working day prior to the date specified for receipt of proposals; or
 - (2) There is acceptable evidence to establish that it was received at the Government installation designated for receipt of offers and was under the Government's control prior to the time set for receipt of offers; or
 - (3) It is the only proposal received.
 - (B) However, a late modification of an otherwise successful proposal that makes its terms more favorable to the Government will be considered at any time it is received and may be accepted.
 - (iii) Acceptable evidence to establish the time of receipt at the

Government installation includes the time/date stamp of that installation on the proposal wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

- (iv) If an emergency or unanticipated event interrupts normal Government processes so that proposals cannot be received at the office designated for receipt of proposals by the exact time specified in the solicitation, and urgent Government requirements preclude amendment of the solicitation, the time specified for receipt of proposals will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which normal Government processes resume.
 - (v) Proposals may be withdrawn by written notice received at any time before award. Oral proposals in response to oral solicitations may be withdrawn orally. If the solicitation authorizes facsimile proposals, proposals may be withdrawn via facsimile received at any time before award, subject to the conditions specified in the provision at 52.215-5, Facsimile Proposals. Proposals may be withdrawn in person by an offeror or an authorized representative, if the identity of the person requesting withdrawal is established and the person signs a receipt for the proposal before award.
- (4) Unless otherwise specified in the solicitation, the offeror may propose to provide any item or combination of items.
 - (5) Offerors shall submit proposals in response to this solicitation in English, unless otherwise permitted by the solicitation, and in U.S. dollars, unless the provision at FAR 52.225-17, Evaluation of Foreign Currency Offers, is included in the solicitation.
 - (6) Offerors may submit modifications to their proposals at any time before the solicitation closing date and time, and may submit modifications in response to an amendment, or to correct a mistake at any time before award.
 - (7) Offerors may submit revised proposals only if requested or allowed by the Contracting Officer.
 - (8) Proposals may be withdrawn at any time before award. Withdrawals are effective upon receipt of notice by the Contracting Officer.
- (d) *Offer expiration date.* Proposals in response to this solicitation will be valid for the number of days specified on the solicitation cover sheet (unless a different period is proposed by the offeror).
 - (e) *Restriction on disclosure and use of data.* Offerors that include in their proposals data that they do not want disclosed to the public for any purpose, or used by the

Government except for evaluation purposes, shall-

- (1) Mark the title page with the following legend:

This proposal includes data that shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed-in whole or in part-for any purpose other than to evaluate this proposal. If, however, a contract is awarded to this offeror as a result of-or in connection with-the submission of this data, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the resulting contract. This restriction does not limit the Government's right to use information contained in this data if it is obtained from another source without restriction. The data subject to this restriction are contained in sheets *[insert numbers or other identification of sheets]*; and

- (2) Mark each sheet of data it wishes to restrict with the following legend:

Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this proposal.

(f) Contract award.

- (1) The Government intends to award a contract or contracts resulting from this solicitation to the responsible offeror(s) whose proposal(s) represents the best value after evaluation in accordance with the factors and subfactors in the solicitation.
- (2) The Government may reject any or all proposals if such action is in the Government's interest.
- (3) The Government may waive informalities and minor irregularities in proposals received.
- (4) The Government intends to evaluate proposals and award a contract without discussions with offerors (except clarifications as described in FAR 15.306(a)). Therefore, the offeror's initial proposal should contain the offeror's best terms from a cost or price and technical standpoint. The Government reserves the right to conduct discussions if the Contracting Officer later determines them to be necessary. If the Contracting Officer determines that the number of proposals that would otherwise be in the competitive range exceeds the number at which an efficient competition can be conducted, the Contracting Officer may limit the number of proposals in the competitive range to the greatest number that will permit an efficient competition among the most highly rated proposals.
- (5) The Government reserves the right to make an award on any item for a quantity less than the quantity offered, at the unit cost or prices offered, unless the offeror specifies otherwise in the proposal.
- (6) The Government reserves the right to make multiple awards if, after considering the additional administrative costs, it is in the Government's

best interest to do so.

- (7) Exchanges with offerors after receipt of a proposal do not constitute a rejection or counteroffer by the Government.
- (8) The Government may determine that a proposal is unacceptable if the prices proposed are materially unbalanced between line items or subline items. Unbalanced pricing exists when, despite an acceptable total evaluated price, the price of one or more contract line items is significantly overstated or understated as indicated by the application of cost or price analysis techniques. A proposal may be rejected if the Contracting Officer determines that the lack of balance poses an unacceptable risk to the Government.
- (9) Cost realism may be considered by the source selection authority in evaluating performance or schedule risk.
- (10) A written award or acceptance of proposal mailed or otherwise furnished to the successful offeror within the time specified in the proposal shall result in a binding contract without further action by either party.
- (11) The Government may disclose the following information in postaward debriefings to other offerors:
 - (i) The overall evaluated cost or price and technical rating of the successful offeror;
 - (ii) The overall ranking of all offerors, when any ranking was developed by the agency during source selection;
 - (iii) A summary of the rationale for award; and
 - (iv) For acquisitions of commercial items, the make and model of the item to be delivered by the successful offeror.

L.2 FAR 52.216-1 TYPE OF CONTRACT (APR 1984)

The Government intends to award a cost-plus-performance based incentive fees type contract resulting from this solicitation for the analytical services and testing at the 222-S Laboratory.

L.3 NUMBER OF AWARDS

It is anticipated that only a single contract award will result from this solicitation. The Government reserves the right to award more than one if it is deemed appropriate.

L.4 GENERAL 222-S LAB OVERVIEW

Analytical services at the 222-S Laboratory provide critical support for Hanford tank waste cleanup and for other Hanford Site cleanup activities. The analytical services to be acquired will be performed at the 222-S Laboratory located in the 200 West Area of

The proposed acquisition will contract for analytical sources to receive, analyze, and report the results from approximately 25,000 inorganic, organic and radionuclide analyses. The analyses will be performed on approximately 3200 highly radioactive and/or hazardous samples received from multiple sources on the Hanford site. The current approximate annual cost of performing these analyses is \$10 million in analytical and labor costs.

DOE has determined the preferred alternative to perform the analytical scope of work is through a small business set-aside contract to:

- Perform the sample receipt and preparation activities associated with the Hanford Site samples sent to the 222-S Laboratory;
- Perform the sample analysis including inorganic, organic, and radiochemistry analyses associated with the Hanford site samples sent to the 222-S Laboratory;
- Provide hardcopy and electronic data reports/deliverables to the Hanford Site customers of 222-S Laboratory; and
- Collaborate with the Tank Farm Contractor to reduce the footprint, improve operational efficiency, and reduce cost and schedule.

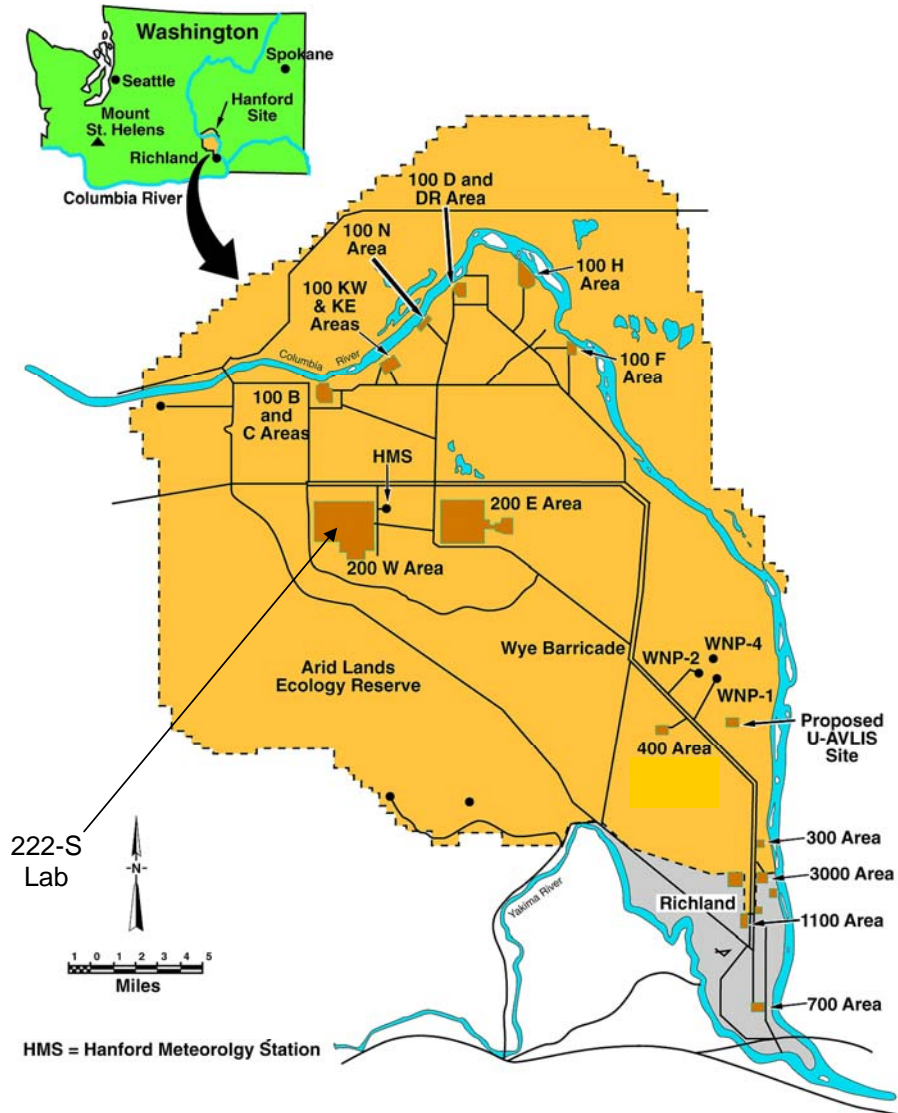
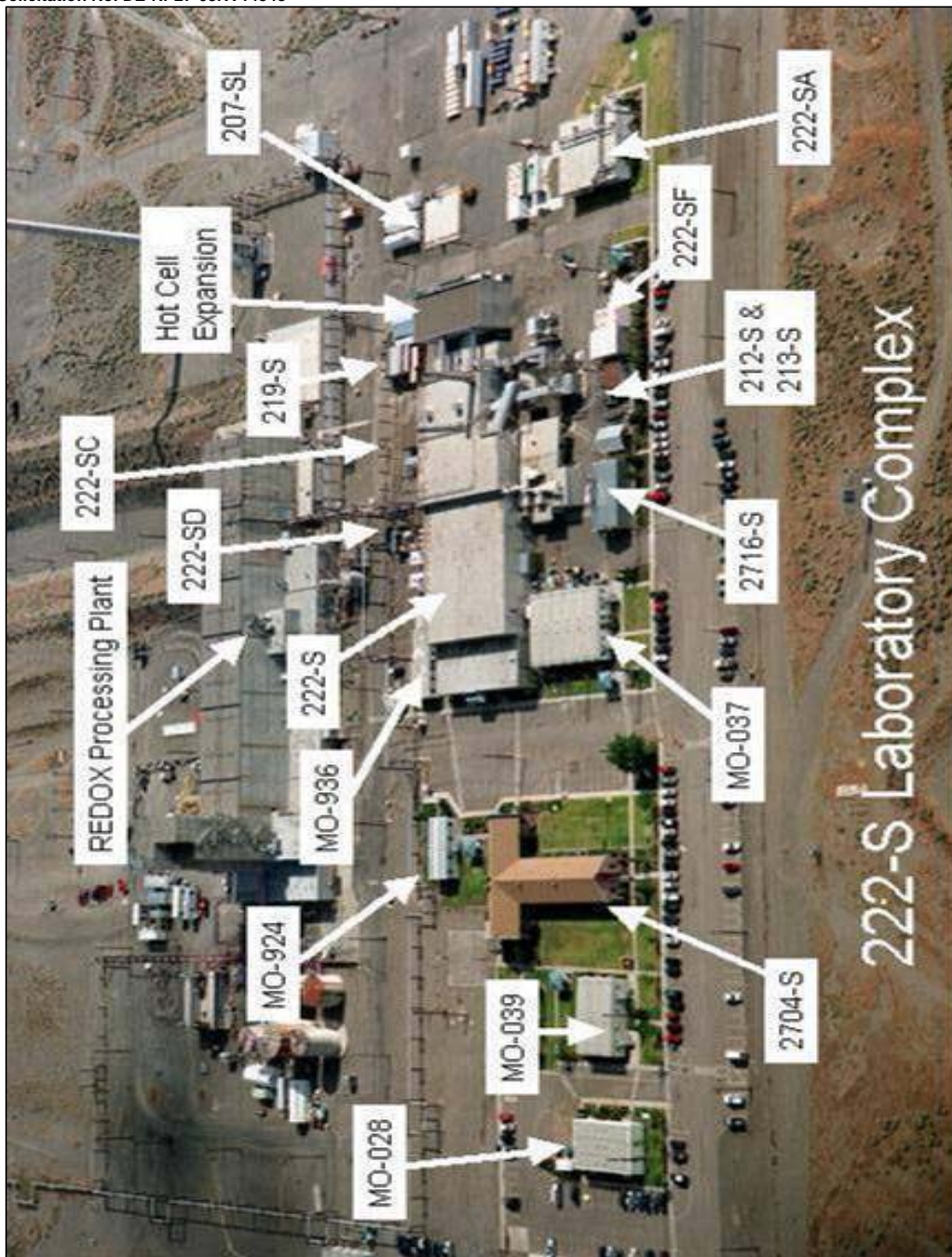


Figure L. 1. Hanford



L.5 PROPOSAL CONTENT/SUBMITTAL DATA

(a) General

- (1) Offerors are to submit copies of their proposal to arrive at the U.S. Department of Energy, Office of River Protection, as described in this section, not later than 4:00 p.m. local time on **TBD**. Each submission shall include an original and eight copies of Volume I, an original and eight copies of Volume II, and an original and eight copies of Volume III, and three Compact Disks (CDs) for each volume.

Oral presentations may be scheduled for those proposals within the competitive range to occur approximately four weeks after proposal submittals **TBD**. An original and 8 copies of the presentation materials to be used by the offerors in their oral presentations will be submitted to the DOE not later than 4:00 p.m. local time on **TBD** (See Section L.)

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- (2) The proposal must be divided into three separate volumes individually entitled as follows:

Volume I, Offer and Other Documents

Volume II, Technical and Management Proposal. No cost information should be included in this volume.

Volume III, Cost/Fee Proposal.

Volume I has no size limitation except as noted in other sections of this document. Volume II shall not exceed 50 pages (not including the information and documents required for key personnel) as described in Subsection L.6. Volume III has a 25 page size limitation, exclusive of attachments (See L.7 (a)). Any pages beyond these limits will not be evaluated.

- (3) Signed contract - The "Solicitation, Offer, and Award" (Standard Form 33, page 1 of the RFP) shall be fully executed and used as the first page of each copy of Volume I, Offer.
- (4) Acceptance Period. The acceptance period entered on the Standard Form 33 by the Offeror shall not be less than 338 days, which shall apply if no longer period is offered.
- (5) Signature Authority. The person signing the Standard Form 33 must have the authority to commit the Offeror to all of the provisions of the proposal, fully recognizing that the Government has the right, by terms of the solicitation, to make an award without further discussion if it so elects.
- (6) By signing Standard Form 33, the Offeror agrees to accept the Contract (Sections A through K of this RFP) as written. Any exceptions or deviations to the terms of this Contract may make the offer unacceptable for award without discussions. If an Offeror proposes exceptions to the terms and conditions of the Contract, the Government may make an

award without discussions to another Offeror that did not take exception to the terms and conditions of the Contract.

- (7) Proposals are expected to conform to all solicitation provisions and be prepared in accordance with the instructions and outline contained in this Section L. The proposal information will be reviewed to ensure compliance by the Offeror with all aspects of this RFP. To aid in evaluation, proposals shall be clearly and concisely written, neat, indexed (cross-indexed as appropriate), and assembled logically. Extraneous, repetitious, or wordy submissions are not desired. Neither offers nor acknowledgments should be provided electronically, by facsimile, or by telephone. Pages should be sequentially numbered with the volume and page numbers and the name of the Offeror, the date, and solicitation number on each page. Failure to respond to or follow the instructions regarding the organization and content of the technical proposal may result in the Offeror's proposal being deemed nonresponsive.
- (8) In preparing the proposal, the instructions given in provisions in Section L are to be followed to facilitate evaluation. Proposals shall be submitted with a numbering system for paragraphs and subparagraphs that is consistent with this Section L.
- (9) Using the evaluation criteria set forth in Section M, proposals will be evaluated in accordance with applicable Federal Acquisition Regulation (FAR) and Department of Energy Acquisition Regulation (DEAR) provisions.
- (10) These instructions are provided to aid Offerors in the preparation of their proposals. These instructions and the information contained in these instructions are not evaluation criteria for this RFP.

L.6 PROPOSAL PREPARATION INSTRUCTIONS, COVER LETTER AND VOLUME I, OFFER AND OTHER DOCUMENTS

- (a) The cover letter shall include but not be limited to the following:
 - (1) The solicitation number.
 - (2) The name, address, and telephone and facsimile numbers of the Offeror (and electronic addresses if available).
 - (3) A statement specifying the extent of agreement with all terms, conditions, and provisions included in the solicitation and agreement to furnish any or all items upon which prices are offered at the price set opposite each item.
 - (4) Names, titles and telephone and facsimile numbers (and electronic addresses if available) of persons authorized to negotiate with the Government on the Offeror's behalf in connection with this solicitation.
 - (5) Name, title, and signature of person authorized to sign the proposal. Proposals signed by an agent shall be accompanied by evidence of that

agent's authority.

- (6) The name, address, telephone number, and facsimile number of the individual in the Offeror's organization to be contacted, if necessary, during evaluation of the proposal.
- (7) The complete formal name and address of the Offeror's organization and/or other participants to be used in any resulting contract. Provide D&B (DUNS) number for each organization and new entity if one is being created.
- (8) The name, address, telephone, and facsimile numbers of representatives of the Government agency having administrative cognizance over the Offeror, contractor team arrangement (as defined at FAR 9.601), or parent company, as applicable (such as contract administration within the meaning of FAR 42.3, Audit, and Equal Employment Opportunity).
- (9) A statement that the Offeror grants to the Source Evaluation Board (SEB) or its authorized representatives, the right to examine, for purposes of verifying the information submitted, those books, records, documents, and other supporting data that will permit adequate evaluation; and this right may be exercised in connection with any such reviews deemed necessary by the Government.

(b) Volume I, General

Volume I, "Offer and Other Documents," consists of the actual offer to enter into a contract to perform the required work. It also includes required representations and certifications, other statements of the Offeror, any other administrative information, and a summary of any exceptions and deviations taken.

(c) Volume I, Format and Content

Volume I, "Offer and Other Documents," shall include the following (in the order listed):

- (1) Other required documents and information:
 - (i) Fully executed Standard Form 33
 - (ii) Offeror Representations and Certifications (Section K)
- (2) Remittance Address. If the Offeror's remittance address is different from the address shown on the Standard Form 33, the remittance address shall be furnished, including ZIP Code.
- (3) The name of the Offeror's organizational unit or separate business entity, to be responsible for the work proposed.
- (4) The acknowledgments of receipt of all amendments to this RFP.

- (5) Offerors' positive commitment to accept the draft contract (Sections A through K of this RFP). With regard to Section I, "Contract Clauses," of the RFP, Offerors are not to submit the complete language from all of the contract clauses in their proposals.
- (6) Any exceptions and deviations taken to the terms and conditions of the draft contract. Identify and explain any exceptions, deviations, or conditional assumptions taken with respect to the requirements of the contract. The benefit, if any, to the Government shall be explained for each exception taken or deviation proposed. Any exceptions or deviations may make the proposal unacceptable for award without discussions. Any exceptions or deviations to Section I of the RFP, or any FAR or DEAR clauses elsewhere in the RFP, will make the proposal nonresponsive to this RFP.

L.7 PROPOSAL PREPARATION INSTRUCTIONS—TECHNICAL AND MANAGEMENT PROPOSAL

There will be written proposals covering the Technical and Management Criteria below. Those contractors that are notified they are within the competitive range should plan on an oral presentation as well. Section (a) and (b) below provide instructions for the written and oral proposals, respectively.

(a) Volume II, General

- (1) Volume II, the Technical and Management Proposal, consists of the Offeror's written discussion addressing the technical and management aspects of the acquisition, the capabilities of the Offeror, and how the Offeror will satisfy the requirements of the Statement of Work. Volume II will be used to evaluate, technical approach, business management, key personnel, experience and past performance, and ES&H. The proposal should be prepared simply and economically, providing a straightforward, concise delineation of what it is the Offeror will do to satisfy the requirements of the Statement of Work.
- (2) No contractual cost information is to be included in the Technical and Management Proposal. Estimated labor hours and skill mixes shall be provided, without associated cost.
- (3) Technical and Management Proposal Page Limitation.
 - (i) The Technical and Management Proposal shall not exceed 50 pages, excluding resumes, commitments of employment, and agreements to relocate under the Key Personnel sub criterion. All pages of each part shall be appropriately numbered and identified with the name of the Offeror. Any time a page limitation is specified, a page is defined as a single side of 8 1/2" x 11" paper. Proposals are to be submitted in hard copy form only, unless otherwise requested. All pages of the proposal are to be submitted on 8 1/2" x 11" sheets - no fold out sheets are allowed. Printing is

to be on one side of paper only. Print type used in the text portions of the proposal shall be no smaller than 12-point. Print type used in charts, graphs, figures and tables may be smaller than 12-point, but must be clearly legible. Page margins (distance between the edge of the page and the body of the proposal) shall be 1-inch on the top, bottom, left, and right sides of the page. Those pages that exceed the limits set forth in Section L of this RFP will not be considered in the evaluation (note: Tables of Contents, Lists of Figures, dividers, tabs, or similar inserts that do not provide any substantive information are not counted as a page).

- (ii) If a Technical and Management Proposal is received exceeding the page limitation, the additional pages will not be considered in the evaluation by DOE. Pages exceeding the page limitation will be removed from the proposal and returned to the Offeror.

(4) Format and Content

- (i) Volume II, the Technical and Management Proposal, shall include the following (in the order listed):

- (1) Technical and Management Summary. This section shall contain a brief summary of the key points of the technical and management proposal.
- (2) Technical and Management Discussion. This section shall contain the major portion of the Technical and Management Proposal. It should demonstrate the Offeror's capability to meet the requirements set forth in the Statement of Work (Section C). It should clearly address each of the Technical and Management Evaluation Criteria and be presented in the order set forth under Technical and Management Criteria Instructions.

- (ii) Technical and Management Criteria Instructions

Information to be provided by the Offeror in the Technical and Management discussion (see subsection (b)(2) above) should include, but is not limited to, the following data.

- (1) Criterion 1, Technical Approach

Describe proposed processes and strategies for effective and efficient use of resources to manage and perform the Statement of Work.

The technical approach shall describe the Offeror's method of executing the work scope for the analytical services and testing at the 222-S Laboratory. Include a discussion of the intended method for accomplishment of the work and

describe how the work will be performed to improve lab operations, reduce turn-around time on analyses, enhance the objectives of the Hanford Site and reduce costs. The discussion should include identification of uncertainties in the approach, an assessment of their magnitude, and a description of how they will be managed. Include any technical innovations that will enhance the work. Provide the details of any approach that will reduce life cycle costs for lab operations. For each fiscal year, the Offeror will describe a performance measure which may be used by the DOE to determine lab improvement. Describe any regulatory approaches to be considered in the interest of achieving further project optimization.

The approach for accomplishing the following activities shall describe the feasibility, reasonableness, method and sequencing for the following:

1. Management of lab work load
2. Handling of highly radioactive samples
3. Implementing customer requirements
4. Anticipating and tracking waste generated during the analyses process
5. Managing interfaces with Hanford-wide programs
6. Managing analytical data entry
7. Providing quality assurance and quality control
8. Providing results to the customers

(2) Criterion 2, Key Personnel

- (i) The Offeror must provide written resumes in the format provided in Section L, Attachment 2, for management team members (Key Personnel) being proposed. These resumes shall include at least three references.
- (ii) The Offeror shall propose a list of Key Personnel (see Clause H.17) consistent with its organizational structure. (There is no maximum to the number of key personnel that may be designated. The Offeror shall explain and justify the positions chosen for key personnel. The listing of key personnel will become part of Clause H.17 of the contract.
- (iii) Key Personnel resumes shall not exceed three (4) pages in

length.

- (iv) The offeror will describe each key person's 1) education, experience, demonstrated performance, suitability to proposed positions, leadership, and capability to perform the Statement of Work relative to the proposed positions; 2) degree of success in managing projects of similar complexity to the 222-S Lab analytical services scope within cost, schedule, regulatory, and technical performance objectives; 3) familiarity with the Offeror's organization and the means by which that familiarity has been achieved; and 4) rationale for selecting the key personnel positions.
- (v) A signed letter of commitment must be submitted for each individual listed as a key person, stating the information contained in the resume submitted as part of the proposal is true and correct, and the individual will accept the position identified in the proposal.

Failure to submit letters of commitment may result in the Offeror's proposal being eliminated from further consideration for award for failure to meet the solicitation requirements of submitting an acceptable proposal.

a. Criterion 3, Experience and Past Performance

(i) Experience

The Offeror shall furnish a summary of relevant experience in all major work areas demonstrating experience and capabilities in performing the scope of work. All reasonably similar to the types of work identified in the Statement of Work. The Offeror should provide specific examples of experience where possible. If the Offeror proposes to have portions of the work identified in Section C performed by an entity(ies) other than itself, it shall provide the identity of the other entity(ies), relationship to the prime contractor (partner, sub-contractor, etc), and provide relevant information concerning the experience of the entity(ies).

Identify and quantify (in terms of dollar volume) the experience of all members of the Offeror's team working under rigorous quality assurance requirements such as 10 CFR 50 Appendix B, CFR 830.120, or their equivalents, in the past five years. Identify and quantify all relevant RCRA and CERCLA experience.

(ii) Past Performance

For this criterion, the Offeror should provide information regarding specific contracts and information regarding the Offeror's overall performance.

(a) Specific Contacts

The Offeror will provide the following information (see Attachment 4) for itself or for the contractor team arrangements as defined by FAR Part 9.6: the Offeror is to submit past performance information on projects similar in type, scope, complexity, duration, and/or risk to the 222-S. For each team member, provide a list of three (3) current contracts or activities in fields related to the Statement of Work substantially underway or have been completed in the last five years. The three contracts selected must be those most relevant in size and complexity to this solicitation. The Offeror shall explain the relevancy of each selected contract. For each contract or activity, state the type of contractual arrangement (cost type, fixed price, etc.), dollar amount of contract, title, sponsoring entity, contract number, name and telephone number of the Contracting Officer or Buyer, name and telephone number of the technical representative, name, title, and telephone number of the lead environmental regulator for RCRA or state regulatory office director, and names of consultants and partners/subcontractors used, if any (for activities performed under a contract with a private entity, provide equivalent information). For each contract listed, provide information concerning all problems and labor relations issues encountered, the Offeror's corrective actions, and its compliance with cost scope and schedule

(b) Overall Performance Information

- (A) The Offeror shall provide (1) the number and types of violations and fines that have been levied on the Offeror working under the requirements of 10 CFR 830.120; (2) all serious industrial safety accidents or violations the Offeror has experienced over the past five years, including those that have occurred on DOE-owned sites as well as those resulting in enforcement action by OSHA or an equivalent agency of any state; and (3) any enforcement action taken by the NRC on any Offeror organization over the past five years (see Attachment 4).
- (B) The Offeror is to provide its past performance

history in (1) providing results against plans on or ahead of schedule at or under costs, (2) addressing complex and controversial labor relations issues, and, (3) outsourcing of sample analysis to level workload.

- (C) Provide a list of Government contracts terminated (partially or completely) within the last three years, including dollar amount, type of contract, a brief description of the statement of work, basis for termination, sponsoring agency, contract number and name and telephone number of the Contracting Officer.

(3) Criterion 4, Environment, Safety and Health

The Offeror will outline its corporate philosophy towards ES&H. In demonstrating Managements' and the Team's commitment to safety, the following are of special interest:

- How the offeror intends to plan, train, and monitor ES&H performance
- Beyond measurement, how safety is designed into the workplace

The Offeror's proposal will demonstrate how it will execute the Statement of Work using this Integrated Safety Management (ISM) system consistent with DEAR 970.5223-1, Integration of Environment, Safety, and Health into Work Planning and Execution (December 2000), that flows down into all work, including subcontractor and customers' work activities, and shows the depth of the Offeror's understanding of ISM and how it applies to the work scope. The Offeror is to show the identification and understanding of the hazards associated with the scope of work and the relative risk those hazards pose to the worker, public and environment. If the Offeror proposes to invoke paragraph C of the Section I Clause entitled, Laws, Regulations, and DOE Directives, the Offeror is to demonstrate its understanding of such an approach and how its use can benefit the project. The Offeror is to show how safety and health deficiencies will be identified and resolved and how effective project-wide corrective actions will be implemented. The Offeror needs to describe how it holds managers accountable for safe work performance, how worker involvement in ES&H is achieved, how ES&H complaints are handled, what ES&H training is conducted, how ES&H requirements flow down to subcontractors, what systems will be in place for monitoring subcontractor ES&H performance, and how self-evaluation and oversight will be achieved.

The Offeror needs to demonstrate its understanding of the applicable environmental laws and regulations with particular

attention to the Hanford Federal Facility Agreement and Consent Order, otherwise known as the Tri-Party Agreement (TPA). The Offeror shall describe its strategy for interfacing with the external regulators so as to optimize project effectiveness and resolve regulatory issues before they affect the baseline. The Offeror shall demonstrate its understanding of the relationship of the technical content of the work to the regulatory strategy.

(4) Criterion 5 Business Management

- (i) Project Management: The offeror will present their approach to managing the 222-S Laboratory analytical services starting with the management of transition activities from date of award through the transition period. Project Management includes project definition; execution and delivery to the client; contractor organization; the contractor's anticipated planning and budgeting processes; and performance analysis, reporting, and corrective action management. The contractor's approach to life-cycle Performance Management Baseline (PMB) and effectiveness of managing change are important elements of this criteria. The offeror will additionally discuss project controls such as the use of predictors to success, metrics used to demonstrate value, and change control management.
- (ii) Sub-contractor/Joint Venture Management: Where multiple companies will be conducting significant portions of the work-scope, the offeror will present their approach to operating in joint teaming, and/or sub-contractor organizations. This information should include past experience in joint ventures/teaming/sub-contractor relationships (if applicable) and how the alignment of the offerors proposed organization is effective in integrating the project team.
- (iii) Labor Relations: The Offeror will demonstrate their approach to labor relations. For the Prime Contractor and applicable major sub-contractors, the Offeror will present their experience in managing in a unionized workforce environment. Additionally, the Offeror will present their approach to transitioning the existing workforce and dealing with employee concerns.
- (iv) Risk Management: The Offeror shall describe the approach it will use to identify, assess and manage future uncertainties and their programmatic risk during the performance of this contract. This shall also describe the approach it will use to communicate uncertainty and risk to DOE during the

performance of the contract.

(A) The Offeror shall provide its assessment of the work scope and incentive uncertainties. For the uncertainties that present a significant risk to project cost and schedule, the offeror shall provide its proposed approach for their elimination, avoidance or mitigation.

(B) When developing its approach to eliminate, avoid or mitigate programmatic risks, the offeror may propose shared responsibility. This can result in the contractor assuming total responsibility, the Government assuming total responsibility, or a clearly defined method of sharing risk responsibility between the government and the contractor.

- (v) Corporate Commitment: The Offeror will demonstrate their corporate commitment to the 222-S Laboratory Project. The Offeror will provide percentage of corporate personnel resources committed to this workscope by management and technical categories. The Offeror will present how the prime and major sub-contractor organizations are committed to success. If the organization(s) has a Business Model by which it operates, it should be presented.

- (vi) Efficiency Improvement

(2) Oral Presentation Length

Should Oral presentations be requested, the following instructions apply:

The allocation for each area is:

-	Project Management	60
minutes		
-	Sub Contractor/Joint Venture Management	20
minutes		
-	Labor Relations	20 minutes
-	Risk Management	60 minutes
-	Corporate Commitment	20 minutes

Presenters will strictly adhere to the three hour time limit and follow the order above. The presentation will be cut off at the end of the allocated time. A break will be taken between the second and third presentations. No questions will be asked during the presentations. At the conclusion of

all five presentations, members of the evaluation team will caucus and return with any questions needed to clarify points made in the presentations.

(3) Presenters

The Offerors key technical personnel (see Criterion 2, Key Personnel) will be the primary presenters. The Source Evaluation Board expects that all designated key personnel will present in a context of the offeror's choosing. Additionally, up to two corporate officers not employed on the contract may attend and present, and two support staff may attend to support presenters in set-up and operation of the presentation equipment. No other officers, employees, consultants, agents, or other representatives not meeting the above criteria may attend.

(4) Method of Presentation

DOE will make an audio recording or a transcription of the entire oral presentation for its own use. The Offerors will not be permitted to make audio or video recordings. A copy of the audio recording or transcription will be furnished to the Offeror. The Offeror may only use an overhead and/or computer-generated slides as presentation material. No video presentations, posters, flipcharts, or wall charts will be allowed, except in response to clarification questions. Materials shall be suitable for oral and visual presentation and numbered to ensure that all presented material can be tracked. The Offeror may only use a flipchart and/or a whiteboard for illustrative purposes in response to questions. The Offeror may use the white board located in the presentation facility to respond to questions.

Paper copies of the Offeror's oral presentation materials are required under Provision L7.(b).(2). No modifications or substitutions will be accepted after the oral presentation material due date. Only those materials submitted and presented during the allotted time for the open presentation will be considered in the evaluation of the proposal. Additional material will not be accepted. Any presentation material submitted but not actually presented in the open presentation will be discarded and will not be evaluated. Copies of the presentation materials need not be provided at the oral presentation. The Government will utilize the materials submitted with the offeror's original proposal.

The facility chosen will be large enough to accommodate the offeror's proposal presentation team as well as the Source Evaluation Board members. The Government will provide an overhead projector and screen, flip chart easels with paper, and a speaker system if needed for the facility. The offeror is responsible for providing any other equipment it may need for its presentation.

L.8 PROPOSAL PREPARATION INSTRUCTIONS, COST AND PERFORMANCE BASED FEE

All cost information shall be provided in Volume III of the proposal. The offeror shall provide 222-S LAB project target cost and performance based fee from contract award to contract completion. All costs provided shall be in constant FY 2004 dollars.

The following instructions are provided to guide your proposal preparation:

(a) General

The cost proposal should be divided into the following sections, and include the information described in subsequent paragraphs:

- (1) Target Cost and Target Performance Based Fee for the Scope of Work (see Performance Based Incentives in Section X)
- (2) Financial Responsibility Determination

(b) Instructions for Preparation of Cost Proposal

Cost and financial data should be fully supported and organized in a manner that facilitates review. The cost data shall be broken down into three major areas (1) direct costs (e.g., labor, materials and supplies, equipment, subcontracts, etc.), (2) labor rates, and (3) indirect costs. In addition, Offerors should clearly indicate (1) what data are existing, verifiable, and the data source and date, (2) judgmental factors applied in projecting from known data to the estimate, (3) justification of how information was developed (i.e., labor rates, contingency rates, escalation, etc.), (4) key assumptions, and (5) the basis for each cost element proposed.

(1) Target Cost, Performance Based Fee

The Offeror shall propose Target Cost, and Associated Performance Based Fee, for the 222-S LAB.

- (i) Provide a target cost in constant FY 2004 dollars for each activity proposed. Also identify the total overhead, total labor and total contingency amounts which are included in the Target Cost.
- (ii) Provide an overview addressing the estimating approach. The overview must provide a detailed basis in terms of assumptions, approach to execution, work scope, productivity, labor mix, labor rates, indirect costs (i.e. fringe benefits, overhead, G&A, etc.), and risk/uncertainty. Software applications utilized for estimating should also be identified.

In addition, the following is required:

(A) For each of the proposed activities, provide the following:

- (1) The technical methodology planned for performing the work. This includes the basic work process the Offeror intends to implement in order to perform the

work. Also include, if applicable, the justification of how the work process or methodology improves cost or schedule performance.

- (2) The actual cost estimate used to develop the target cost for this activity. This shall be to the lowest level developed by the Offeror and must include all relevant direct and indirect costs as considered allowable under FAR Part 31. The Offeror's cost data should address, as a minimum, the following types of costs:
 - (i) Direct Costs – Costs that can be identified to a direct code of account (COA) or charged directly to programmatic work. Some examples are as follows:
 - a. Labor
 - b. Materials and supplies
 - (ii) Indirect Costs – Costs that, although they are directly attributable to and only benefit 222-S LAB, are not identifiable with a single direct COA and therefore are distributed. For example, the warehousing of items to be consumed by several different direct project work operations is considered to be an indirect cost.
 - a. Fringe Benefits
 - b. General and Administrative costs
 - c. Overheads
 - d. Taxes

This data may be provided as an appendix to the narrative.

- (3) If empirical cost data is used as a cost basis (e.g. past performance experience from similar work), the Offeror shall include the origin of the data, the specific job or project the data came from and the name and phone number of the reference, and how the performance method and experience is transferable to the cost activity being justified.

- (4) Escalation: In addition, include the basis for escalation of the target cost. This basis should be fully explained and correlated with historical index data or the UNICALL data used in the RFP. The Offeror's estimate shall

provide year-by-year expenditures and the corresponding yearly escalation rate, expressed as a factor to be multiplied by each preceding year.

(5) Contingency: The Offeror shall specify the contingency applied to the target cost. The discussion should include a treatment of the components of the proposed contingency and how they are individually developed. The discussion shall also include a treatment of how the contingency has been applied to the estimate.

- (iii) Target Fee. The Offeror shall propose a target fee for the cost performance fee set forth in Clause B.5.
- (iv) Minimum and Maximum Fee: The Offeror will propose a minimum and maximum fee for the scope of work in accordance with Section C.

(2) Financial Responsibility Determination

- (i) Financial Statements: The Offeror must provide audited/certified financial statements, where available, for the three most recent accounting periods. Financial statements must include, at a minimum, a balance sheet, statement of operations (profit and loss), statement of changes in financial position, and related explanatory notes. If the Offeror is a joint venture or other business combination, these data must be provided for each entity.
- (ii) Government Financial Experience: To determine responsibility, the cost proposal must briefly describe the Offeror's experience and capability in the following financial areas:
 - (A) Cost-type Contracts: Identify by contract number, Federal agency, dollar amount, and description of the work for all cost-type Government contracts currently open that exceed \$5 million.
 - (B) Property Accounting: Identify experience with Government furnished property to include the type(s) of property controlled and extent of an established property accounting system.

Cost Accounting Standards (CAS): FAR 31 defines those costs that are allowable. The CAS standards state how those costs are to be allocated. CAS requires that indirect cost pools be established and maintained during the term of this contract.

CAS regulations require submission of a Disclosure Statement that is determined adequate by the Contracting Officer. These statements identify direct versus indirect costs and the basis for allocation. The written practices will be used as a

benchmark for actual practices. These statements will not be disclosed to the public.

The Offeror shall briefly describe its current accounting system and the adequacy of that system for reporting against Government cost type contracts and compliance with CAS. In addition, the Offeror shall identify the cognizant Government auditor and any Government agency that has formally approved the accounting system, if applicable. If the Offeror is a joint venture or other business combination, these data must be provided for each entity.

L.9 CONTACTS REGARDING FUTURE EMPLOYMENT

Prior to Contract award, except where prohibited by law, contacts with incumbent employees regarding future employment are permitted; however, such contacts must take place outside the normal working hours of such employees and not on any DOE sites. Offerors are reminded, however, that no contacts with Federal, Contractor, or subcontractor employees are permitted for the purpose of seeking procurement sensitive information relating to this solicitation.

L.10 PRE-PROPOSAL CONFERENCE

No pre-proposal conference is planned for this acquisition. In lieu of a pre-proposal conference, a draft solicitation will be issued with a public comment period provided for Offerors and interested individuals to critique the solicitation.

L.11 FAR 52.222-24, PRE-AWARD ON-SITE EQUAL OPPORTUNITY COMPLIANCE EVALUATION (FEB 1999)

If a contract in the amount of \$10 million or more will result from this solicitation, the prospective Contractor and its known first-tier subcontractors with anticipated subcontracts of \$10 million or more shall be subject to a preaward compliance evaluation by the Office of Federal Contract Compliance Programs (OFCCP), unless, within the preceding 24 months, OFCCP has conducted an evaluation and found the prospective Contractor and subcontractors to be in compliance with Executive Order 11246.

L.12 FAR 52.225-12, NOTICE OF BUY AMERICAN ACT REQUIREMENT—CONSTRUCTION MATERIALS UNDER TRADE AGREEMENTS (MAY 2002)

(a) *Definitions.* "Construction material," "designated country construction material," "domestic construction material," "foreign construction material," and "NAFTA country construction material," as used in this provision, are defined in the clause of this solicitation entitled "Buy American Act-Construction Materials under Trade Agreements" (Federal Acquisition Regulation (FAR) clause 52.225-11).

(b) *Requests for determination of inapplicability.* An offeror requesting a determination regarding the inapplicability of the Buy American Act should submit the request to the Contracting Officer in time to allow a determination before submission of offers. The offeror shall include the information and applicable supporting data required by paragraphs (c) and (d) of FAR clause 52.225-11 in the request. If an offeror has not requested a determination regarding the inapplicability of the Buy American Act before

submitting its offer, or has not received a response to a previous request, the offeror shall include the information and supporting data in the offer.

(c) *Evaluation of offers.*

(1) The Government will evaluate an offer requesting exception to the requirements of the Buy American Act, based on claimed unreasonable cost of domestic construction materials, by adding to the offered price the appropriate percentage of the cost of such foreign construction material, as specified in paragraph (b)(4)(i) of FAR clause 52.225-11.

(2) If evaluation results in a tie between an offeror that requested the substitution of foreign construction material based on unreasonable cost and an offeror that did not request an exception, the Contracting Officer will award to the offeror that did not request an exception based on unreasonable cost.

(d) *Alternate offers.*

(1) When an offer includes foreign construction material, other than designated country or NAFTA country construction material, that is not listed by the Government in this solicitation in paragraph (b)(3) of FAR clause 52.225-11, the offeror also may submit an alternate offer based on use of equivalent domestic, designated country, or NAFTA country construction material.

(2) If an alternate offer is submitted, the offeror shall submit a separate Standard Form 1442 for the alternate offer, and a separate price comparison table prepared in accordance with paragraphs (c) and (d) of FAR clause 52.225-11 for the offer that is based on the use of any foreign construction material for which the Government has not yet determined an exception applies.

(3) If the Government determines that a particular exception requested in accordance with paragraph (c) of FAR clause 52.225-11 does not apply, the Government will evaluate only those offers based on use of the equivalent domestic, designated country, or NAFTA country construction material, and the offeror shall be required to furnish such domestic, designated country, or NAFTA country construction material. An offer based on use of the foreign construction material for which an exception was requested-

(i) Will be rejected as nonresponsive if this acquisition is conducted by sealed bidding;
or

(ii) May be accepted if revised during negotiations.

L.13 DEAR 952.227-84, RIGHT TO REQUEST PATENT WAIVER (FEB 1998)

Offerors have the right to request a waiver of all or any part of the rights of the United States in inventions conceived or first actually reduced to practice in performance of the contract that may be awarded as a result of this solicitation in advance of or within 30 days after the effective date of contracting. Even where such advance waiver is not requested or the request is denied, the contractor will have a continuing right under the contract to request a waiver of the rights of the United States in identified inventions; i.e., individual inventions conceived or first actually reduced to practice in performance of the contract. Domestic small businesses and domestic nonprofit organizations normally will receive the patent rights clause DEAR 952.227-11, which permits the contractor to retain title to such inventions except under contracts for management or operation of a Government-owned research and development facility or under contracts involving exceptional circumstances or intelligence activities. Therefore, small businesses and nonprofit organizations normally need not request a waiver. (See the

patent rights clause in the draft contract in this solicitation. See DOE's patent waiver regulations at 10 CFR Part 784.)

**L.14 FAR 52.233-2, SERVICE OF PROTEST (AUG 1996)/DEAR 952.233-2,
SERVICE OF PROTEST**

- (A) Protests, as defined in FAR 33.101, *Definitions*, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office, shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from:

Cloette B. Reid
Contracting Officer
U.S. Department of Energy
Office of River Protection
MSIN H6-60
Office of Project Administration
2440 Stevens Drive (for hand delivery/Express mail) or P.O. Box 450 (if
using U.S. Mail)
Richland, WA 99352
Telephone: (509) 373-4143
Facsimile: (509) 376-8532
E-mail: Cloette_B_Reid@rl.gov

- (B) The copy of any protest shall be received in the office designated above within one day of filing a protest with the General Accounting Office.
- (C) Another copy of a protest filed with the General Accounting Office shall be furnished to the following address within the time periods described in paragraph (b) of this Provision:

U.S. Department of Energy
Assistant General Counsel for Procurement and
Financial Assistance (GC-61)
1000 Independence Avenue, S.W.
Washington, DC 20585
Fax: (202) 586-4546

L.15 DEAR 952.233-4, NOTICE OF PROTEST FILE AVAILABILITY (SEPT 1996)

- (A) If a protest of this procurement is filed with the General Accounting Office (GAO) in accordance with 4 CFR Part 21, any actual or prospective Offeror may request the Department of Energy to provide it with reasonable access to the protest file pursuant to FAR 33.104(a)(3)(ii), implementing section 1065 of Public Law 103- 355. Such request must be in writing and addressed to the contracting officer for this procurement.
- (B) Any Offeror who submits information or documents to the Department for the purpose of competing in this procurement is hereby notified that information or

documents it submits may be included in the protest file that will be available to actual or prospective Offerors in accordance with the requirements of FAR 33.104(a)(3)(ii). The Department will be required to make such documents available unless they are exempt from disclosure pursuant to the Freedom of Information Act. Therefore, Offerors should mark any documents as to which they would assert that an exemption applies. (See 10 CFR Part 1004.)

L.16 DEAR 952.233-5, AGENCY PROTEST REVIEW (SEPT 1996)

Protests to the Agency will be decided either at the level of the Head of the Contracting Activity or at the Headquarters level. The Department of Energy's agency protest procedures, set forth in DEAR 933.103, elaborate on these options and on the availability of a suspension of a procurement that is protested to the agency. The Department encourages potential protesters to discuss their concerns with the contracting officer prior to filing a protest.

L.17 CONTENT OF RESULTING CONTRACT

Any contract awarded as a result of this RFP will contain Part I—The schedule, Part II—Contract Clauses, and Part III, Section J—List of Documents, Exhibits, and Other Attachments.

L.18 DOE ISSUING OFFICE

Source Evaluation Board
U.S. Department Of Energy
Office of River Protection
P.O. Box 550
Richland, WA 99352
Point of Contact: Clo Reid
Telephone: (509) 373-4143

L.19 TIME, DATE, AND PLACE PROPOSALS ARE DUE

Mailed proposals shall be marked as follows:

FROM: _____

MAIL TO:

Source Evaluation Board
U.S. Department Of Energy
Office of River Protection
P.O. Box 550,
Richland, WA 99352

Solicitation No. DE-RP27-03RV14548

Due _____
(Attention: Cloette B. Reid)

Next Day Delivered (Express Mail, Federal Express or United Parcel Service)
proposals shall be marked as follows:

From: _____

Send To:
Source Evaluation Board
U.S. Department Of Energy
Office of River Protection
2440 Stevens Drive
Richland, WA 99352

Solicitation No. DE-RP27-RV14548

Due _____
(Attention: Cloette B. Reid)

Hand carried proposals shall be marked as follows:

From _____

Hand Carry To:
Source Evaluation Board
U.S. Department of Energy
Office of River Protection
2440 Stevens Dr..
Richland, WA 99352

Solicitation No. DE-RP27-RV14548

Due _____
(Attention: Cloette B. Reid)

*Note: Offerors hand carrying proposals to the above address must
telephone one of the following individuals prior to attempting
delivery in order to ensure their availability:*

Lori Derryberry	(509) 373-9555
Clo Reid	(509) 373-4143

- (A) The written proposals are due NO LATER THAN 4:00 p.m. local prevailing time on
TBD. CAUTION: See the proposal submission instructions, including the provision
describing treatment of late submissions, modifications, and withdrawals of
proposals at FAR 52.215-1. The presentation materials to be used by the offerors in
their oral presentations will be submitted to the DOE not later than 4:00 p.m. local

time on **TBD**. (See Section L7).

- (B) If the Offeror elects to forward the offer by means other than the U.S. Mail, it assumes the full responsibility of insuring that the offer is received at the place and by the date and time specified in this solicitation. Facsimile or electronic commerce offers will not be accepted.
- (C) It may not be possible to hand carry the package(s) outside of the hours 8:00 a.m. to 4:00 p.m. on federal workdays. Delivery to any other location than that specified herein is unacceptable.

L.20 SMALL BUSINESS SIZE STANDARDS AND SET-ASIDE INFORMATION

This acquisition is set-aside for small business. The North American Industry Classification System (NAICS) Code is 562910, Environmental Restoration Services.

L.21 GUIDANCE FOR PROSPECTIVE OFFERORS - IMPACT OF TEAMING ARRANGEMENTS ON SMALL BUSINESS STATUS

- (a) This procurement has been set aside for small business. In order to ensure that award is made to an eligible small business, prospective Offerors, in consultation with legal counsel, are encouraged to review the Small Business Administration's (SBA) size eligibility standards found at Title 13 of the Code of Federal Regulations, Section 121 (13 C.F.R. § 121). In particular, Offerors proposing a joint venture, subcontracting, or another form of teaming arrangement should review 13 C.F.R. § 121.103, *What is affiliation?*, prior to submitting a proposal.
- (b) The SBA is the sole authority for making determinations of small business status for small business programs. Such determinations are binding on the Offeror and on the contracting officer. Accordingly, a finding by the SBA of affiliation between an Offeror and its proposed team member(s) or subcontractor(s) may result in the Offeror being found to be other than a small business and therefore ineligible for contract award.
- (c) Business concerns are considered to be affiliates of each other if either one directly or indirectly controls or has the power to control the other, or if another concern controls both. In determining whether affiliation exists, factors such as common ownership, common management, and contractual relationships are considered. An Offeror will also be found to be affiliated with its subcontractor(s) if the Offeror is unusually reliant upon its subcontractors or if the subcontractor(s) will perform primary and vital requirements of a contract.
- (d) The SBA has issued extensive decisions concerning its evaluation of affiliation of an Offeror and its proposed subcontractor(s). The following examples set forth characteristics that the SBA has reviewed in considering the question of affiliation and may assist prospective Offerors in developing any teaming arrangements and their proposals.
 - (1) The SBA considers whether proposed subcontracting, partnership, joint

venture, or other teaming arrangements contain discrete descriptions of the tasks or work to be performed by each party. The SBA considers whether the Offeror or, if the Offeror is a joint venture or partnership, the joint venture participants or partners, perform the primary or vital portions of the Statement of Work. The SBA considers whether teaming arrangements clearly set forth the relationship between the parties, as well as the individual roles and responsibilities assigned.

- (2) The SBA considers whether there is a clear separation of facilities, employees, and management (decision-making authority) between the Offeror and any entities with which it has teaming arrangements.
- (3) The SBA considers the extent to which the Offeror directly employs Key Personnel (Program Manager, Project Manager, etc.).
- (4) If the Offeror is an eligible small business prime contractor, the SBA considers whether the majority of the technical expertise resides with the Offeror. If the Offeror is an eligible joint venture (see 13 CFR 121.103(f)(3)), the SBA considers whether the majority of the technical expertise resides among the joint venture members.
- (5) The SBA considers the Offeror's profit sharing arrangements with its proposed subcontractor or other entities.
- (6) In reviewing affiliation between the Offeror and its proposed subcontractors or entities with which the Offeror has a teaming arrangement, SBA considers the previous contractual or business relationships between the Offeror and that entity.

L.22 FALSE STATEMENTS

Proposals must set forth full, accurate, and complete information as required by this solicitation (including attachments). The penalty for making false statements therein is prescribed in 18 U.S.C. 1001.

L.23 EXPENSES RELATED TO PROPOSAL OR BID SUBMISSIONS

The Government does not intend to reimburse offerors for pre-proposal costs.

L.24 AMENDMENT OF THE SOLICITATION

The only method by which any term of the RFP may be modified is by an express, formal amendment to the solicitation generated by the issuing Contracting Officer. No other communication made at any scheduled conference or subsequent discussions, whether oral or in writing will modify or supersede the terms of the RFP.

L.25 COMMITMENT OF PUBLIC FUNDS

The Contracting Officer is the only individual who can legally commit the Government to the expenditure of public funds in connection with the proposed procurement. Any other

commitment, either explicit or implied, is invalid.

L.26 NOTICE OF LABOR PROVISIONS

- (A) The Offeror should note that this solicitation includes in the proposed contract, clauses requiring the listing of employment openings with the local office of the Federal-State employment service system where a contract award is for \$10,000 or more. (See clauses "Affirmative Action for Special Disabled and Vietnam Era Veterans" and "Affirmative Action for Handicapped Workers.")
- (B) General information regarding the requirements of the Walsh-Healey Public Contracts Act (41 U.S.C. 35-45), the Contract Work Hours Standards Act (40 U.S.C. 327-333), and the Service Contract Act of 1965 (41 U.S.C. 351-358) may be obtained from the Department of Labor, Washington, D.C., 20310, or from any regional office of that agency. Requests for information should include the RFP number, the name and address of the issuing agency, and a description of the supplies or services.

L.27 RESPONSIBLE PROSPECTIVE CONTRACTORS

- (A) The general and additional minimum standards for responsible prospective contractors set forth at 48 CFR 9.1 and 48 CFR 909.104-70 apply.
- (B) DOE may conduct pre-award surveys in accordance with FAR 9.106 and may solicit from available sources, any relevant information concerning the Offeror's record of past performance, and DOE may use such information in making determinations of prospective contractor responsibility.

L.28 DISPOSITION OF PROPOSALS OR BIDS

Proposals or bids will not be returned (except for timely withdrawals). Proposals not required for official record retention will be destroyed.

L.29 DISPOSITION OF SOLICITATION DOCUMENTS

Drawings, specifications, and other documents supplied with the Solicitation may be retained by the Offeror (unless there is a requirement for a document to be completed and returned as a part of the offer).

L.30 ALTERNATIVE PROPOSAL INFORMATION

Alternative proposals that are not consistent with the Statement of Work and these instructions of which are only for a portion of the work are not solicited, are not desired, and shall not be evaluated.

L.31 AVAILABILITY OF REFERENCED DOCUMENTS

Certain documents are available for your information and use in connection with this RFP from 10:00 a.m. to 5:00 p.m., Monday through Friday (except holidays) in the DOE Public Reading Room at Washington State University, 100 Sprout Road, Richland, WA

99352, telephone (509) 376-8583 (see Attachment 1 to this section).

L.32 NOTICE OF POSSIBLE USE OF NON-FEDERAL EVALUATORS

Offerors are notified that DOE may employ non-Federal evaluators (including employees of DOE contractors) to evaluate proposals submitted in response to this solicitation. All such non-Federal evaluators are required to sign appropriate non-disclosure and conflict of interest statements prior to any such engagement. By submission of Offers under this solicitation, Offerors are deemed to have consented to a review by non-Federal evaluators.

L.33 ELECTRONIC MEDIA—SOLICITATION AND AMENDMENT DISTRIBUTION

In order to further the Government policy of maximizing electronic commerce and making the acquisition process optimally cost effective, electronic media will be used exclusively and will be the sole method used for distributing the solicitation and amendments thereto to the public. The solicitation and any amendments will be posted on e-center.doe.gov; FedBizOpps; and, the ORP Internet Small Business Web Page at:

<http://www.hanford.gov/orp/>

The above electronic medium will constitute the official distribution method for this solicitation. All amendments and any other official communications from the agency regarding this solicitation will be posted through this medium. Offerors and all other interested parties shall maintain continual surveillance of the above Website to remain abreast of the latest available information. No other communication, whether oral or in writing, will modify or supersede the terms of the solicitation.

L.34 QUESTIONS ON SOLICITATION

Offerors and interested parties are invited to submit questions regarding this solicitation process to the Contracting Officer at Cloette_B_Reid@rl.gov. Questions will be answered on a periodic basis, and answers will be posted on the web page. **Questions submitted more than 30 days after issuance of the solicitation may not be answered and may not be a basis for amending this solicitation.**

L.35 OFFER ACCEPTANCE PERIOD

The minimum offer acceptance period is 338 days.

L.36 AVAILABILITY OF REFERENCED DOCUMENTS AND ORGANIZATIONAL INTERNET URL ADDRESS INFORMATION

A detailed list of various available reference documents for the Offeror's information and use in connection with preparing an offer and other written proposal information under this solicitation can be accessed from links at the official Solicitation Website at:

e-center.doe.gov
<http://www.fedbizopps.gov/>

or

<http://www.hanford.gov/orp/>

L.37 OFFEROR INTENTION TO SUBMIT AN OFFER

As an optional courtesy to DOE, Offerors are requested to complete the following and return via email to the address below within fifteen days of the official release date of the final solicitation. Failure to provide this advance notification **does not** preclude an Offeror from submitting an offer under this solicitation.

Solicitation Number DE-RP27-RV14548

_____ We do intend to submit an offer.

_____ We do not intend to submit an offer for the following reasons:

Name and address of firm or organization (Include Zip Code):

(Include information on significant teaming partners)

Name and Title: _____

Date: _____

E-Mail To: Cloette_B_Reid@rl.gov

Attachment 1 - DOE Reading Room Contents

The U. S. Department of Energy's Public Reading Room (Operated by the Pacific Northwest National Laboratory) provides the public with access to information and documents on DOE and Hanford programs. The Reading Room may be accessed via the Internet at <http://reading-room.pnl.gov/default.htm> or visited in person and contains a collection of over 40,000 items. These are primarily technical and administrative reports created by DOE and its contractors from the 1943 founding of the Hanford Site to the present. The Reading Room does NOT contain every report ever written at Hanford, but the staff is happy to assist users in trying to locate Hanford publicly available documents not in the Reading Room. Not everything in the collection gets entered into the electronic database/catalog. Generally, reports with document numbers are included in the catalog, with the exception of Unusual Occurrence and Off-Normal Occurrence Reports. The Reading Room collection consists of the following types of materials:

- Reports of Special Investigations
- DOE Contracts with Major Hanford Contractors & Evaluation Reports
- Current & Historical Hanford Environmental Monitoring Reports Environmental Restoration and Tri-Party Agreement Materials
- Hanford Environmental Dose Reconstruction Project Materials
- Defense Nuclear Facility Safety Board Materials
- Materials Relating to Historical Human Radiation Testing
- Tank Waste Remediation System Regulatory Unit File
- Environmental Impact Statements & Environmental Assessments
- Materials from the Hanford Health Effects Subcommittee
- Unusual Occurrence and Off-Normal Occurrence Reports (not in catalog)
- DOE Orders and Directives (not in catalog)
- Labor Standards Board Determinations (not in catalog)
- Press Releases and Newspaper Articles Related to Hanford (not in catalog)

All items in the collection are available either on-line or in hard copy, however, hard copy materials are for use in the Reading Room only. Materials in the Reading Room collection do not circulate and cannot be checked out or borrowed through Interlibrary Loan. If extra copies of materials exist, they are made available and are distributed free. Also, photocopying is available for a charge. If a copy needs to be made, a duplication fee of 10 cents per page is charged. It is the Reading Room's policy to require payment in advance before sending out copies of any document. Currently, the Reading Room does not have the capability to duplicate large maps or plates. If a copy cannot be made, the staff is usually able to refer you elsewhere for a copy. Requests by phone, fax, mail or email are welcome, as well as in person.

The Reading Room Catalog (<http://rrcatalog.pnl.gov/>), contains the bibliographic data for the majority of items in the Reading Room collection and is updated continuously. As of April 2001, there were over 23,500 records in the catalog. Generally, all items with document numbers get added to the catalog and as soon as a document has been

added, it shows up in this database. Please note that not everything in the Reading Room collection has been entered into the catalog.

Description of fields in the Reading Room Catalog

Accession Number	Unique number, sequentially assigned by Reading Room staff when items are entered into the catalog.
Document Number	Identifying number given to the report, usually by the originator; not all items in the catalog have a document number.
Alternate Doc Num.	Any alternative document numbers that the report may have.
No. Pages	How many pages the document is (sometimes this field is blank, which means that the page count has not been done yet).
Document Title	The title, as it appears on the document; if a document is known by a common or unofficial title, that is listed in parentheses or quote marks, e.g., "Tri-Party Agreement."
Date Published	Date the document was issued, as it appears on the document; if only the year is given, that's all that's entered into the catalog; this field may occasionally be blank.
Date Placed in Reading Room	Date the report was added to the Reading Room collection; it was not necessarily entered into the catalog on that same day. This field was not used until January 1, 1998, so if there is no date listed in this field, it means the report was placed in the Reading Room collection before January 1, 1998.
Document Notes	Any miscellaneous but pertinent information about the document (such as format); this field is NOT searchable.
URL of the Document	If the Reading Room is aware of an electronic version of the document, the URL where it can be located is listed here; by clicking in this box in the search form (without entering any other search criteria), it is possible to get a list of all the reports for which we have specific URLs.
Document Category	A category assigned by Reading Room staff to selected records, this is an optional field, which is usually blank; currently there are five categories used: Hanford-related Environmental Impact Statements and Environmental Assessments Accident/Investigation Reports Human Test Subject Reports Requested under Freedom of Information Act (FOIA) Finding Aids.
Author	Name(s) of individuals who wrote the document; currently all authors are entered, but in the past only the first three authors were listed; many documents do not have personal authors listed; author names are listed alphabetically, not necessarily in the order that appears on the document.
Corporate Author	Entity that created the document; usually this is the organization that the writer of the report worked for, but not always.

Journal Name	Title of journal if the document is an article from a journal.
Shelving	Location on the Reading Room shelves where the document is
Location and	physically located; there may be more than one location if the Reading
Location	Room has multiple copies of the same report (usually these would be
Extension	in different formats, e.g., paper or microfiche).

Each URL listed in the Reading Room catalog is checked for accuracy when it is entered into the catalog and at regular intervals, but these Internet addresses are external to the DOE-RV Public Reading Room, and DOE is not responsible for the content, accessibility, or currency of these sites.

Not every report in the Reading Room catalog that is available electronically has a URL listed; electronic versions of the following types of reports are likely to be found at the sites listed:

- Reports that are part of the Hanford Tri-Party Agreement Administrative Record or Public Information Repository are at <http://www2.hanford.gov/arpir/>.
- DNFSB (Defense Nuclear Facility Safety Board) reports are at:
<http://www.dnfsb.gov/document.htm>
- GAO (General Accounting Office) reports are at: <http://www.gao.gov/reports.htm>
- Reports in the "Human Test Subjects" category are at: <http://hrex.dis.anl.gov/>
- Hanford-generated documents that have been declassified are at:
<http://www2.hanford.gov/declass/d20pydeclass.asp>
- DOE Information Bridge includes DOE-sponsored report literature produced by the DOE and DOE contractor research and development community received and processed by the Office of Scientific and Technical Information since January 1995, at <http://www.osti.gov/bridge/>
- For additional Internet sites that have full text reports, see the Hanford Technical Library Electronic Documents page at: http://www.pnl.gov/tech_lib/edocs.htm.

If you have any questions about these materials, please contact the Reading Room Staff at doe.reading.room@pnl.gov or

Ms. Teresa Traub
U.S. Department of Energy Reading Room
P.O. Box 999 H2-53
Richland, Washington 99352
Telephone: (509) 374-7423
Facsimile: (509) 372-7444
Via E-Mail at doe.reading.room@pnl.gov

The DOE Public Reading Room is located in the Consolidated Information Center (CIC) on the Washington State University Tri-Cities campus. The facility is open **Monday through Friday from 10 a.m. until 5 p.m.** (Pacific Standard Time). Staff are available during these hours to assist patrons in using the collection.

Physical Address:
2770 University Drive
CIC, Room 101L
Richland, WA 99352

Directions:

Take I-82 or Hwy. 240 to Richland. Exit onto George Washington Way and proceed north 4 miles. At 1/4 mile past Sprout Road, turn right on First Street. Take the first right off of First Street on to University Drive. You will see the CIC down the hill directly in front of you. Once you enter the building, take the first right into the Consolidated Libraries. Then take an immediate right at the Information Desk and continue past the computer terminals to the Public Reading Room.

Attachment 2 - Standard Resume Format

Name:

Country of Citizenship:

Proposed Title/Assignment on Contract:

Availability Date and Period of Commitment:

Current Assignment (include from/to dates):

Current Client/Customer (include current address and telephone number):

Description of Current Assignment:

Description(s) of Experience Relevant to Proposed Contract Assignment (Include personal involvement in integrating ES&H and Diversity into everyday work processes and from/to dates):

Technical Qualifications (include special skills and relevant technical training):

Education (above high school - include from/to dates and current address and telephone number):

Three Knowledgeable Client/Customer Business References (include from/to dates and current address and telephone number):

Experience Summary. Offerors are requested to provide a chronology of all work experience for key personnel listed in the proposal relevant to the proposed position. This chronology shall include the dates of employment, the identity of the employer or employers, the location of the site where most of the work was performed, the number of personnel supervised (if the position was supervisory), the name and position of the individual's immediate supervisor, and a telephone number for this supervisor, if reasonably available. If an individual was in one location but held numerous positions while at that location, please list these separately. A narrative is not desired, however, brief parenthetical or footnoted notations are permissible if they shed light on the employment history that is not otherwise apparent.

*Expand spaces as necessary within the limitation that resumes must not exceed four pages in length.

**Attachment 3 - Offeror Past-Performance Reference Information Worksheet
and Questionnaire**

1. Complete name of Government agency, commercial firm, or other organization	
2. Complete address	
3. Contract number or other reference and type	4. Date of contract
5. Date work commenced	6. Date work was completed
7. Initial contract price, estimated cost and fee, or target cost and	8. Final amount invoiced or amount invoiced to date
9a. Technical POC (name, title, company/agency, address, telephone number, fax number and email address)	9b. Contracting POC (name, title, company/agency, address, telephone number, fax number and email address)
9c. Environmental Regulator POC (name, title, company/agency, address, telephone number, fax number and email address)	10. Names, addresses, and phone numbers of consultants and partners/subcontractors used
11. Project/Contract Title	
12. Description of contract work (Describe nature and scope. Attach an explanation of any performance problems or other conflicts with the customer. Describe any litigation, pending, on-going, or completed. Use a continuation sheet, if necessary.)	

Attach additional sheet if necessary (one additional sheet maximum)

13. Current status of contract (choose one):

- | | |
|--|---|
| <input type="checkbox"/> Work continuing, on schedule | <input type="checkbox"/> Work completed, litigation pending or underway |
| <input type="checkbox"/> Work continuing, behind schedule | <input type="checkbox"/> Terminated for convenience |
| <input type="checkbox"/> Work completed, no further action pending or underway | <input type="checkbox"/> Terminated for default |
| <input type="checkbox"/> Work completed, routine administrative action pending or underway | <input type="checkbox"/> Other (explain) |
| <input type="checkbox"/> Work completed, claims negotiations pending or underway | |

Instructions for Completing the Reference Information Sheet

- Item 1. Insert the complete name and address of the customer, including parent organization, if any. Do not use acronyms.
- Item 2. Insert the customer's complete address, including both post office box and street addresses, if applicable.
- Item 3. Insert any contract number or other contract reference used by the customer and contract type.
- Item 4. Insert the date on which the contract came into existence.
- Item 5. Insert the date on which you started to perform the work.
- Item 6. Insert the date on which the customer agreed that the work was satisfactorily completed (including substantial completion), aside from any pending or on-going administrative actions, claims negotiations, or litigation.
- Item 7. Insert the price, estimated cost and fee, or target cost and profit or fee as it appeared in the original contract. If the contract included multiple, separately priced items, add the individual item amounts and insert the total price, estimated cost and fee, or target cost and profit or fee.
- Item 8. Insert the final sum of all invoices, or the sum of all invoices to date, including agreed upon and disputed amounts, paid and awaiting payment.
- Item 9a. Insert the name, title, company/agency, address, telephone no., facsimile no., and e-mail address (if available) of the program or project manager, quality assurance representative, or other customer technical representative who is most familiar with the quality of your work under the contract.
- Item 9b. Insert the name, title, company/agency, address, telephone no., facsimile no., and e-mail address (if available) of the contracting officer, purchasing agent, or other customer contracting or purchasing representative who is most familiar with your work under the contract.
- Item 9c. Insert the name, title, company/agency, address, telephone no., facsimile no., and e-mail address (if available) of (a) lead environmental regulator(s) for RCRA or a State regulatory office director under whose authority RCRA and other environmental regulations would be enforced.
- Item 10. Insert names and phone numbers of consultants and partners/subcontractors used.
- Item 11. Insert the title of the project and/or contract.

- Item 12. Describe the nature and scope of the work. The objective is to show how the work that you did or are doing is similar in nature and scope to the work that is to be performed under the contract contemplated by the request for proposals. Describe any unusual circumstances of performance or problems that may be relevant to the work that is to be performed. Tell your side of the story of any conflicts with the customer concerning which they may make adverse remarks about your performance. Describe any actions that you have taken or plan to take to correct any shortcomings in your performance. Describe any pending, on-going, or completed litigation.
- Item 13. Insert an X in the block next to the choice which best describes the current status of the contract. If you select the "Other" block, provide a brief explanation.

Past Performance Letter

Date _____

Dear _____:

The Department of Energy (DOE) is asking for your assistance in a procurement effort. _____ is participating in a proposal for a DOE Contract. We are asking you to complete the attached questionnaire to help us evaluate _____'s performance.

Please use the following definitions to provide your ratings:

- 0 - Unsatisfactory - The contractor failed to meet the minimum contract requirements.
- 1 - Poor - Performance was less than expected. The contractor performed below minimum contract requirements.
- 2 - Satisfactory - Performance met expected levels. The contractor met the minimum contract requirements.
- 3 - Good - Contractor performance exceeded expected levels. The contractor performed above minimum contract requirements and displayed a thorough understanding of contract requirements.
- 4 - Excellent - Contractor performance substantially exceeded expected levels of performance. The contractor consistently performed above contract requirements, displayed an overall superior understanding of contract requirements, and used innovative approaches leading to enhanced performance.

NA - Not applicable

DK - Don't know. No knowledge available to rate this question.

Please feel free to provide an explanatory narrative under REMARKS. If more space is needed, please attach additional pages.

We greatly appreciate your time and assistance in completing this questionnaire.
Please provide the following information:

Your company name and address:

Name/Telephone number/Title of person completing the questionnaire:

0=Unsatisfactory, 1=Poor, 2=Satisfactory, 3=Good, 4=Excellent, NA=Not Applicable,
DK=Don't Know

Did the contractor adhere to contract delivery schedules/response times/cost estimates/budgets? 0 1 2 3 4 NA DK

Did the contractor utilize an effective project management system that included planning, budgeting, status tracking, reporting, baseline management, critical path analysis, and work breakdown structure? 0 1 2 3 4 NA DK

Was the Statement of Work executed effectively by the contractor in a consistently high quality manner? 0 1 2 3 4 NA DK

Was the contractor's ES&H program in compliance with contract requirements and protective of workers, public, and the environment? 0 1 2 3 4 NA DK

Was the contractor effective in subcontract management? 0 1 2 3 4 NA DK

Did the contractor provide an effective and efficient transition from the previous contractor? 0 1 2 3 4 NA DK

Did the contractor effectively manage regulatory compliance programs and regulatory interfaces? 0 1 2 3 4 NA DK

Did the contractor develop and implement an effective quality assurance program? 0 1 2 3 4 NA DK

Did the Contractor perform activities that contributed to an accomplishment of project mission? Yes _____
No _____

Would you hire this Company again? Yes _____
No _____

Was the Contractor willing to partner with the customer, supplying a service consistent with programmatic priorities? Yes _____
No _____

Was the Contractor able to deal with rapid changes in analysis workload requirements? Yes _____
No _____

Respondent: Please fill in the following table:

Item	Fill-In
Name	
Title	
Organization Name	

Organization Address (including City, State, zip)	
Telephone Number (w/area code)	
Facsimile Number (w/area code)	
e-mail address	

Attachment 4 - ESQ&H Past Performance

(Minimum information required for each member of offeror's team, unless not applicable. If not applicable, provide explanation as to why the requested information does not apply. If "zero," enter "0.")

(1) North American Industry Classification System (NAICS) Code:

Fiscal Year or Calendar Year	1998	1999	2000	2001	2002	2003
(2) Number of Workplace Fatalities – <i>all employee workplace fatalities, including subcontractors under your control.</i>						
(3) Lost Workday Case (LWC) Rate – <i>number of lost workday cases per 200,000 hours worked.</i>						
(4) Total Recordable Case (TRC) Rate – <i>number of recordable cases per 200,000 hours worked.</i>						
(5) Experience Modification Rate (EMR) – <i>workers compensation loss experience rate.</i>						
(6) Cited Environmental Violations – <i>number and total dollar amount of environmental violations and penalties cited in enforcement actions.</i>						
(7) Cited Safety and Health Violations – <i>number and total dollar amount of safety and health violations and penalties cited in enforcement actions, e.g., NRC, Price-Anderson, or federal or state OSHA violations.</i>						
(8) Releases to the Environment – <i>number of releases of a hazardous substance or regulated pollutant that exceeds CERCLA reportable quantity per 40 CFR 302 and 40 CFR 355.</i>						
(9) Environmental Permit Exceedances – <i>number of exceedances of air and water permit release levels not reported under (8) above.</i>						
(10) Worker Radiation Dose – <i>average measurable dose per individual, e.g., collective total effective dose equivalent divided by number individuals with measurable dose.</i>						

(11) Provide a brief explanation, as necessary, of any information reported in (2) through (10) above.

For calendar or fiscal years 1998 through 2003, provide the following:

- (12) Any formal assessments of facility conduct of operations by government or independent safety oversight, regulatory, industry, or corporate bodies for which a written report was made.
- (13) Any other ESQ&H metric, trend, analysis, or performance measurement that would reflect on performance of ESQ&H in operations under the Offeror's management.

Attachment 5 - Sample History of Typical Analytical Services Requests

Attachment 5 shows the types of tests that can be expected to be specified by a customer. Attachment 6 provides detail on the types of analytes in each category of analysis. Attachment 7 provides the number of tests performed in the last year and is provided as an indicator of the relative number of tests. Attachment 8 individually describes information about the laboratory and support facilities. And, Attachment 9 lists currently available instruments at the 222-S Laboratory.

Sample Preparation

- Sample Breakdown
- Homogenize Sample
- Centrifuge Sample
- Composite Sample
- Bulk Density
- Volume of % Centrifuged Solids
- Liquid Weight
- Solid Weight
- Volume of Solid
- Acid Dilution for ICP/AA/Radiochemistry
- Water Digest for ICP/AA/Radiochemistry
- Fusion with KOH
- Water Digest (no acid)

Analyses

Inorganic, Physical Analyses, Total Organic Carbon (TOC)

- Ammonium by Ion Chromatography (IC)/Cations by IC
- DSC exotherms by TA
- Iso Uranium by ICP/Mass Spectrometry(MS)
- Specific Gravity
- % Water by Gravimetric Measurement
- Anions by IC
- ICP Acid Digest/Routine Analysis
- Total Organic Carbon (TOC) by Persulfate/Coulometry

Organic Analyses

- PCB Sample Preparation
- PCB Analyses (SW846 8082)
- Volatile Analyses (SW846 8260)
- Semivolatile Analyses (SW846 8270)

Radionuclide Analyses

- Alpha in liquid sample
- Am241, Cm 243 by TRU-SPEC Resin
- Plutonium (Pu) 238, 239 by TRU-SPEC Resin
- GEA
- Strontium (Sr) 89/90 High Level

Data Reporting

- Full Data Package
- Summary Data Package
- Summary Data Package with Quality Assurance and TCD Upload

QC Samples are priced per method requirements individually for blanks, spikes, duplicates, and external reference samples.

Attachment 6 - Sample of Typical Analyses Performed at the Lab

A. Inorganic Analyses

A-1 Cations by Ion Chromatography (IC)

1. Calcium
2. Potassium
3. Lithium
4. Magnesium
5. Sodium
6. Ammonium

A-2 Anions/Small Organic Acids by IC

1. Acetate
2. Bromide
3. Chloride
4. Fluoride
5. Formate
6. Glycolate
7. Nitrite
8. Nitrate
9. Oxalate
10. Phosphate
11. Sulfate

A-3 ICP Acid Digest/Routine Analysis

- | | | |
|---------------|------------------|---------------|
| 1. Silver | 18. Lithium | 35. Silicon |
| 2. Aluminium | 19. Magnesium | 36. Samarium |
| 3. Arsenic | 20. Manganese | 37. Tin |
| 4. Boron | 21. Molybdenum | 38. Strontium |
| 5. Barium | 22. Sodium | 39. Tantalum |
| 6. Beryllium | 23. Neodymium | 40. Tantalum |
| 7. Bismuth | 24. Nickel | 41. Tellurium |
| 8. Calcium | 25. Phosphorus | 42. Thorium |
| 9. Cadmium | 26. Lead | 43. Titanium |
| 10. Cerium | 27. Palladium | 44. Thallium |
| 11. Cobalt | 28. Praseodymium | 45. Uranium |
| 12. Chromium | 29. Rubidium | 46. Vanadium |
| 13. Copper | 30. Rhodium | 47. Tungsten |
| 14. Europium | 31. Ruthenium | 48. Yttrium |
| 15. Iron | 32. Sulfur | 49. Zinc |
| 16. Potassium | 33. Antimony | 50. Zirconium |
| 17. Lanthanum | 34. Selenium | |

A-4 ICP/MS Acid Digest/Add Acid Metals

- | | |
|---|--|
| 1. Cs133 ICP/MS (Acid Digest) | 48. Rubidium (Total) ICP/MS(acid digest) |
| 2. Cs135 ICP/MS (Acid Digest) | 49. Rhodium (Total) ICP/MS ACIDDIG |
| 3. AMU 137 (Cs/Ba) ICP/MS (Acid Digest) | 50. Ruthenium(Total) ICP/MS(acid digest) |
| 4. Cs137 ICP/MS (Acid Digest) | 51. Sulfur (Total) ICP/MS(acid digest) |
| 5. Sn117 ICP/MS (Acid Digest) | 52. Antimony (Total) ICP/MS(acid digest) |
| 6. Sn126 ICP/MS (Acid Digest) | 53. Selenium(Total) ICP/MS ACIDDIG |
| 7. Tc99 by ICP/MS (Acid Digest) | 54. Tantalum (Total) ICP/MS(acid digest) |
| 8. Cs133 ICP/MS (Acid Digest) | 55. Tellurium (Tot) ICP/MS (acid digest) |
| 9. Cs135 ICP/MS (Acid Digest) | 56. Thallium (Total) ICP/MS(acid digest) |
| 10. Cs 137 ICP/MS (Acid Digest) | 57. Vanadium (Total) ICP/MS(acid digest) |
| 11. Sn117 ICP/MS (Acid Digest) | 58. Tungsten (Total) ICP/MS(acid digest) |
| 12. Sn126 ICP/MS (Acid Digest) | 59. Yttrium (Total) ICP/MS (acid digest) |

13. Tc99 by ICP/MS (Acid Digest)
14. Cs 133 by ICP/MS Acid Addition
15. Cs 135 by ICP/MS Acid Addition
16. Cs 137 by ICP/MS (Acid Additn)
17. Sn 117 by ICP/MS
18. Sn 117 by ICP/MS Acid Addition
19. Sn 126 by ICP/MS
20. Sn 126 by ICP/MS (Acid Additn)
21. Tc 99 by ICP/MS Acid Addition
22. Cs 133 by ICP/MS Fusion Prep.
23. Cs 135 by ICP/MS (Fusion Prep)
24. AMU 137 (Cs/Ba) ICP/MS Fusion
25. Sn 117 by ICP/MS (Fusion Prep)
26. Sn 126 by ICP/MS (Fusion Prep)
27. Tc 99 by ICP/MS (Fusion Prep)
28. Eu/Sm 151 by ICP/MS Acid Dig.
29. Zr/Sr 90 by ICP/MS Acid Digest
30. Nb/Zr 93 by ICP/MS Acid Digest
31. Silver (Total) ICP/MS(acid digest)
32. Arsenic(Total) ICP/MS(acid digest)
33. Boron (Total) ICP/MS (acid digest)
34. Barium (Total) ICP/MS(acid digest)
35. Beryllium(Total) ICP/MS(acid digest)
36. Cerium (Total) ICP/MS(acid digest)
37. Cobalt (Total) ICP/MS(acid digest)
38. Europium (Total) ICP/MS(acid digest)
39. Potassium(Total) ICP/MS(acid digest)
40. Lanthanum(Total) ICP/MS(acid digest)
41. Lithium (Total) ICP/MS ACIDDIG
42. Molybdenum (Tot) ICP/MS(acid digest)
43. Sodium (Total) ICP/MS(acid digest)
44. Neodymium(Total) ICP/MS(acid digest)
45. Nickel 63 by ICP/MS (Acid Dig)
46. Palladium(Total) ICP/MS(acid digest)
47. Praseodymium(Tot) ICP/MS ACDIG
60. Zinc (Total) ICP/MS (acid digest)
61. Zinc(Total) ICP/MS(acid digest)
62. Eu/Sm 151 by ICP/MS Acid Dig.
63. Zr/Sr 90 by ICP/MS Acid Digest
64. Nb/Zr 93 by ICP/MS Acid Digest
65. Silver (Total) ICP/MS(acid digest)
66. Arsenic(Total) ICP/MS(acid digest)
67. Boron (Total) ICP/MS (acid digest)
68. Barium (Total) ICP/MS(acid digest)
69. Beryllium(Total) ICP/MS(acid digest)
70. Cerium (Total) ICP/MS(acid digest)
71. Cobalt (Total) ICP/MS(acid digest)
72. Europium (Total) ICP/MS(acid digest)
73. Potassium(Total) ICP/MS(acid digest)
74. Lanthanum(Total) ICP/MS(acid digest)
75. Lithium (Total) ICP/MS (acid digest)
76. Molybdenum (Tot) ICP/MS(acid digest)
77. Sodium (Total) ICP/MS(acid digest)
78. Neodymium(Total) ICP/MS(acid digest)
79. Nickel 63 by ICP/MS (Acid Dig)
80. Palladium(Total) ICP/MS(acid digest)
81. Praseodymium(Tot) ICP/MS (acid digest)
82. Rubidium (Total) ICP/MS(acid digest)
83. Rhodium (Total) ICP/MS (acid digest)
84. Ruthenium(Total) ICP/MS(acid digest)
85. Sulfur (Total) ICP/MS(acid digest)
86. Antimony (Total) ICP/MS(acid digest)
87. Selenium(Total) ICP/MS (acid digest)
88. Tantalum (Total) ICP/MS(acid digest)
89. Tellurium (Tot) ICP/MS (acid digest)
90. Thallium (Total) ICP/MS(acid digest)
91. Vanadium (Total) ICP/MS(acid digest)
92. Tungsten (Total) ICP/MS(acid digest)
93. Yttrium (Total) ICP/MS (acid digest)
94. Zinc (Total) ICP/MS (acid digest)

B. Organic Analysis

B-1 Volatiles SW846 8260

Solicitation No. DE-RP27-03RV14548

- | | |
|-------------------------------------|--------------------------------|
| 1. 1,1-Dichloroethane | 23. Chloroform |
| 2. 1,1,1-Trichloroethane | 24. Chlorobenzene |
| 3. 1,1,2-Trichloroethane | 25. cis-1,3-Dichloropropene |
| 4. 1,1,2,2-Tetrachloroethane | 26. Chloroethane |
| 5. 1,1-Dichloroethene | 27. Dibromofluoromethane Surr |
| 6. 1,2-Dichlorobenzene | 28. 1,2-Dichloroethane-d4 Surr |
| 7. 1,2-Dichloroethane | 29. 1,2-Dichloropropane |
| 8. 1,2-Dichloroethene (cis & trans) | 30. Ethylbenzene |
| 9. 1,3-Dichlorobenzene | 31. Xylenes (total) |
| 10. 1,4-Dichlorobenzene | 32. Bromomethane |
| 11. 1-Butanol | 33. Chloromethane |
| 12. 2-Hexanone | 34. 2-Butanone |
| 13. 2-Pentanone | 35. Methylene Chloride |
| 14. 4-Methyl-2-pentanone | 36. Tetrachloroethene |
| 15. Acetone | 37. Styrene |
| 16. Bromodichloromethane | 38. Tetrahydrofuran |
| 17. Benzene | 39. Total Trihalomethanes |
| 18. 4-Bromofluorobenzene-Surr | 40. Toluene-d8 Surr |
| 19. Bromoform | 41. Toluene |
| 20. Carbon Disulfide | 42. trans-1,3-Dichloropropene |
| 21. Carbon Tetrachloride | 43. Trichloroethene |
| 22. Dibromochloromethane | 44. Vinyl Chloride |

B-2 Semivolatiles PCBs SW846 8082

1. Aroclor-1016
2. Aroclor-1221
3. Aroclor-1232
4. Aroclor-1242
5. Aroclor-1248
6. Aroclor-1254
7. Aroclor-1260
8. Decachlorobiphenyl Surr
9. Tetrachloro-m-xylene Surr

B-3 Semivolatiles SW846 8270/RCRA

1. 1,2-Dichlorobenzene	42. 4-Chloro-3-methylphenol	83. Tetradecane
2. 1,2,4-Trichlorobenzene SV	43. 2-Chlorophenol	84. Terphenyl-d14 Surr
3. 1,3-Dichlorobenzene	44. Chrysene	85. 1,1-Dichloroethane
4. 1,4-Dichlorobenzene	45. 3,3'-Dichlorobenzidine	86. 1,1,1-Trichloroethane
5. 2,4-Dichlorophenol	46. Decane (C10)	87. 1,1,2-Trichloroethane
6. 2,4-Dinitrotoluene	47. Dibenz(a,h)anthracene	88. 1,1,2,2-Tetrachloroethane
7. 2,4,5-Trichlorophenol	48. Dibenzofuran	89. 1,1-Dichloroethane
8. 2,4,6-Trichlorophenol	49. Di-n-butylphthalate	90. 1,2-Dichloroethane
9. 2,4-Dimethylphenol	50. Diethylphthalate	91. 1,2-Dichloroethene (cis & tran
10. 2,6-Dinitrotoluene	51. Dimethylphthalate	92. 1-Butanol
11. 2-Butoxyethanol	52. 2,4-Dinitrophenol	93. 2-Hexanone
12. 2-Chloronaphthalene	53. Di-n-octylphthalate	94. 4-Methyl-2-pentanone
13. 2-Fluorophenol Surr	54. Diphenylamine	95. Acetone
14. 2-Methylnaphthalene	55. N-Nitroso-di-n-propylamine	96. Bromodichloromethane
15. 2-Methylphenol	56. Dodecane	97. Benzene 4-Bromofluorobenzene Surr
16. 2-Nitroaniline	57. 2-Fluorobiphenyl Surr	98. Bromoform
17. 2-Nitrophenol	58. Fluorene	99. Carbon Disulfide
18. 2-Picoline	59. Fluoranthene	100. Carbon Tetrachloride
19. 3 & 4 Methylphenol Total	60. Hexachlorobenzene	101. Dibromochloromethane
20. 3-Nitroaniline	61. Hexachlorobutadiene	102. Chloroform
21. 4,6-Dinitro-2-methylphenol	62. Hexachlorocyclopentadiene	103. Chlorobenzene
22. 4-Chlorophenyl-phenylether	63. Hexachloroethane	104. cis-1,3-Dichloropropene
23. Acenaphthene	64. Indeno(1,2,3-cd)pyrene	105. Chloroethane
24. Acenaphthylene	65. Isophorone	106. Dibromofluoromethane Surr
25. Acetophenone	66. Phenol	107. 1,2-Dichloroethane-d4 Surr
26. Anthracene	67. Naphthalene	108. 1,2-Dichloropropane
27. Benzo(a)anthracene	68. Nitrobenzene-d5 Surr	109. Ethylbenzene
28. Benzo(b)fluoranthene	69. Nitrobenzene	110. Xylenes (total)
29. Benzo(g,h,i)perylene	70. 4-Nitrophenol	111. Bromomethane
30. Benzo(a)pyrene	71. 4-Nitroaniline	112. Chloromethane
31. Biphenyl	72. N-Nitrosodiphenylamine	113. 2-Butanone
32. bis-(2-Chloroethyl) ether	73. N-Nitrosodimethylamine	114. Methylene Chloride
33. bis(2-Chloroethoxy)methane	74. Pentachlorophenol	115. Tetrachloroethene
34. bis(2-Ethylhexyl)phthalate	75. Phenanthrene	116. Styrene
35. 2,2'-oxybis(1-Chloropropane)	76. Phenol-d5 Surr	117. Toluene-d8 Surr
36. Benzyl alcohol	77. Pyrene	118. Toluene
37. Benzo(k)fluoranthene	78. Pyridine	119. trans-1,3-Dichloropropene
38. Benzothiazole	79. Total Methylphenols	120. Trichloroethene
39. 4-Bromophenyl-phenylether	80. Tris(2-chloroethyl)phosphate	121. Vinyl Chloride
40. Butylbenzylphthalate	81. Tri-n-butylphosphate	
41. 4-Chloroaniline	82. 2,4,6-Tribromophenol Surr	

Attachment 7 - Sample of Types and Numbers of Tests Performed in 2003

Specific analytical tests:

Test Description	Count	Instrument	Department (1)
Caustic Ratio	2	C/R	i
Chromium (VI) by Spec.	34	Colorimetri c	i
Mercury by CVAA (PE) with FIAS	62	CVAA	i
EDTA/HEDTA by C.Z.E.	24	CZE	i
% Water by TGA using TA	198	DSC/TGA	i
DSC Exotherm by TA	19	DSC/TGA	i
DSC Exotherm Dry Calculated	1	DSC/TGA	i
Anions by IC SW846	322	iC	i
Anions and small Organic Acids	185	iC	i
Cations by Ion Chromatograph	49	IC	i
ICP (Acid Added to Liquid)	416	ICP	i
ICP (Acid Digest of Liquid)	99	ICP	i
ICP (Acid Dig.) Routine Metals	54	ICP	i
ICP (Fus. Dig.) Routine Metals	32	ICP	i
ICP Fusion Zr Cruc. All Metals	13	ICP	i
ICP Acid Digest 'All' Metals	8	ICP	i
ICP (Acid Added to Liquid)	8	ICP	i
ICP (Acid Added to Sample)	6	ICP	i
ICP (Acid Digest of Liquid)	2	ICP	i
ICP Fusion for 'All' Metals	2	ICP	i
99Tc,126Sn,133,135,137Cs	64	ICP/MS	i
Tc99 by ICP/MS (Acid Digest)	36	ICP/MS	i
Iso Actinides by ICP/MS-Acidil	33	ICP/MS	i
Iso Actinides by ICP/MS	25	ICP/MS	i
Iso Actinides by ICP/MS-Fusion	25	ICP/MS	i
Iso Uranium by ICP/MS Acid Add	25	ICP/MS	i
99Tc,126Sn,133,135,137Cs	22	ICP/MS	i
Iso Uranium by ICP/MS AcidD158	22	ICP/MS	i
Iso Actinides by ICP/MS	16	ICP/MS	i
Iso Uranium by ICP/MS- AcidD159	15	ICP/MS	i
Tc 99 by ICP/MS Acid Addition	13	ICP/MS	i
I 129 by ICP/MS	11	ICP/MS	i
I 129 by ICP/MS	11	ICP/MS	i
Isotopic Actinides by ICP/MS	9	ICP/MS	i
99Tc,126Sn,133,135,137Cs	8	ICP/MS	i
Tc 99 by ICP/MS (Fusion Prep)	7	ICP/MS	i
Metals 1 by ICP/MS- ACD158	3	ICP/MS	i
Metals 2 by ICP/MS- ACD158	3	ICP/MS	i
Periodic Tbl by ICP/MS- ACD159	3	ICP/MS	i
Metals 2 by ICP/MS- ACD159	1	ICP/MS	i

ICP/MS	1	ICP/MS	i
Uranium by Phosphorescence	44	KPA	i
OH- by Pot. Titration	266	OH	i
pH Direct	243	pH	i
pH on Solid Samples	23	pH	i
Polarized Light Microscopy	10	PLM	i
Scanning Electron Microscope	27	SEM	i
Specific Gravity	232	SPG	i
Specific Gravity-Solid/Sludges	27	SPG	i
Hot Cell Specific Gravity	14	SPG	i
TIC/TOC Acid-Persulfate	203	TIC TOC	i
TIC/TOC Acid Persulfate	81	TIC TOC	i
Total Carbon by Coulometry	77	TIC TOC	i
TIC by Acid/Coulometry	74	TIC TOC	i
Tot. Organic Carbon by Coul.	68	TIC TOC	i
TOC by Persulfate/Coulometry	3	TIC TOC	i
Phase ID by X-ray Diffraction	22	XRD	i
PCB DWT EPA SW-846 Method 8082	70	PCB	o
PCBs by EPA SW-846 Method 8082	68	PCB	o
PCB Sample Preparation	66	PCB	o
PCB Scan	22	PCB	o
SemiVOA Sample Preparation	12	PCB	o
Semi-Voa Evaporator	30	SV	o
SW-846 8270B Semi-Volatiles	9	SV	o
SW-846 8270B Semi-Volatiles	8	SV	o
Semi-VOA GC/MS RCRA protocol	5	SV	o
VOA Evaporator	24	VOA	o
VOA by GC/MS - CLP protocol	12	VOA	o
VOA by GC/MS - CLP protocol	6	VOA	o
VOA by GC/MS - RCRA protocol	1	VOA	o
Pu239,Pu238 by TRU-SPEC Resin	85	AEA	r
Am241,Cm243 by TRU-Spec Resin	74	AEA	r
Pu238,239 by TRU-SPEC Resin	38	AEA	r
Air Filter AEA	14	AEA	r
Am241 by Extraction	13	AEA	r
Pu239 by TRU-SPEC Resin	12	AEA	r
AEA for peak %	2	AEA	r
AEA for peak %	1	AEA	r
Alpha/Beta Organic Scan	175	Alpha/Beta	r
Alpha in Liquid Samples	165	Alpha/Beta	r
Alpha and Beta, Liquid Samples	133	Alpha/Beta	r
Env Alpha/Beta	55	Alpha/Beta	r
Alpha and Beta, Digested Solid	32	Alpha/Beta	r
Np237 by TTA Extraction	29	Alpha/Beta	r
Alpha of Digested Solid	26	Alpha/Beta	r
Env Alpha/Beta	25	Alpha/Beta	r

Alpha of Sample	14	Alpha/Beta	r
ENV Beta of Sample	4	Alpha/Beta	r
ENV Alpha of Sample	3	Alpha/Beta	r
Env Alpha/Beta-2nd Count	3	Alpha/Beta	r
Sr-89/90 High Level	199	Beta	r
Env Sr-89/90 on Sample	26	Beta	r
Env Sr-89/90 for Solids	15	Beta	r
Env Sr-89/90 for Liquids	3	Beta	r
GEA Large Library Method	107	GEA	r
Env GEA Large Library Method	94	GEA	r
Iodine-129 Waste Tank Samples	78	GEA	r
GEA:Cs137,Co60,Eu154-155,Am241	40	GEA	r
GEA for Co,Sb,Cs,Eu,Ra,Ac,Am	28	GEA	r
GEA for Co60, Cs137	24	GEA	r
Env GEA Large Library Method	15	GEA	r
ENV GEA for Co,Cs,Eu	13	GEA	r
GEA (ENV) Co,Sb,Cs,Eu,RA,Ac,Am	4	GEA	r
GEA for Co60, Cs137	1	GEA	r
Neutron Activat./GEA Al,Cl,Na	4	GEA/NA	r
Technetium - Liq. Scint.	116	Liq Scint	r
Selenium-79 by Liquid Scint.	68	Liq Scint	r
Carbon 14, Small Volume	64	Liq Scint	r
Tritium (H3) by Lachat	26	Liq Scint	r

Note:

(1) Department i=inorganic, o=organic, r=radiochemistry

Additional tests and notifications required by customers:

Activity Description	Count
Dose Rate(hotcell) in mrem/hr	573
Amount of Sam/Present/hotcell	527
Homogenize Sample	439
Dose Rate(samp prep)in mrem/hr	365
Received Sample Yet?	337
Solids Recovered - Weight	248
Hold for Proj Coord Attention	242
Disposal down 11A drain	139
Dose Rate in mrem/hour	115
Acid Digest for ICP/AA/Radchem	110
Acid Digest for ICP/AA/Radchem	85
Organic Vol Present / hotcell	82
% Water by Gravimetric	81
Hot Cell Break down samples	80
Archive aliq of sample/hotcell	80
Bulk Density of Sample	76
Liquid Recovered - Weight	72
Water Digest-NO ACID	63
Make Composite Sample	60

Hot Cell Photography	60
Addition of Water to Sample	59
PCB Sample Preparation	58
Fusion with KOH	55
Centrifuge Liquid / hotcell	48
Liquid Recovered - Volume	47
Appearance of Sample-Hot Cells	44
Push Mode Ext. of Core Samples	44
Notebook with source data	44
Give this sample to PCL	43
Conductivity of Liquid AR20	40
Liner Liquid Recoverd - Volume	40
Solids Recovered - Volume	40
Drainable Liquid Recovrd - Vol	38
Drainable Liquid Recoverd - Wt	38
Hot Cell % Water by Gravimetr.	37
Volume - Material in Container	36
Break down samples/Dose&Appear	35
SemiVOA Sample Preparation	35
Volume % Centrifuged Solids	33
Bulk Density of Sample	32
Alkali Metal Hydroxide Fusion	27
Solids % - Gravimetric	27
Cyanide EDTA Addition	20
Volume % Settled Solids	18
Ship aliquot of sample to PNL	18
Volume % Centrifuged Solids	16
Fusion (Zr Crucible) with KOH	15
Ship Class B Rad. (PAS-1 Cask)	15
Cyanide Water Distillation	14
Archive an aliquot of sample	14
Acid Dig-Sandfilter Backwash	13
AMT/ORG/SLDS/COLOR/DOSE	11
TOXICICTY LEACHING PROCEDURE	11
Ship Class A Rad. (Hedge Hog)	10
Suspended Solids in a Liquid	8
Shear Strength	8
Hot Cell Breakdown Samples	6
Particle Size Analysis	5
Weight Percent Oxides	4
Filter Liquid / hotcell	4
Hot Cell Water Digest-NO ACID	4
Water Dilution of a Sample	4
Solids % - Grav. in Hot Cell	4
Ship Class C Rad.(On-site Pig)	4
Total Dissolv. Solids - Grav.	3
Ship sample	3
Bulk Density Special Test Plan	2
Breakdown Samples-Dose &Appear	1
Volume Pct Settled Solid - TP	1

Volume Percent Solid Test Plan	1
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Attachment 8 - Facilities that are part of the 222-S Laboratory complex and auxiliary buildings

- 222-S Building ⁽¹⁾
- 222-S Building Annex ⁽¹⁾
- 222-SA Standards Laboratory ⁽¹⁾
- 222-SB Filter Building
- 222-SC Filter Building
- 222-SE Filter Building
- 222-SF Material Staging Area
- 2716-S Storage Building
- 212-S and 213-S Gas Storage Docks
- HS-0065 Chemical Storage Unit
- CFX Pit

Waste Handling Facilities

- 207-SL Retention Basin
- 225-WB
- 219-S Waste Handling Facility
- 222-SD Solid Waste Handling/Storage System
- Bone Yard
- 222-S Dangerous and Mixed Waste Storage Areas (HS-0082 and HS-0083)

Administrative and Office Buildings

- 2704-S Building ⁽²⁾
- MO-037
- MO-039
- MO-924
- MO-291
- MO-028
- Connex boxes

⁽¹⁾ ASPC personnel will occupy these facilities where the analytical chemistry work is performed.

⁽²⁾ ASPC management and administrative personnel will be provided space in this facility.

Facility Descriptions

222-S Laboratory and Related Structures

222-S Building--The 222-S Building is a two-story building 111.5 m (366 ft) long and 32.6 m (107 ft) wide located in the southeast corner of the 200 West Area.

The first floor of the 222-S Building is divided into four general areas. The west end contains the lunchroom, offices, and locker rooms, which are maintained free of radioactivity and toxic chemicals. The west central section contains laboratories and service areas for work with radioactive and/or toxic materials. The east central section, commonly referred to as the multi-curie section, contains laboratories, hot cells, and service areas for working with radioactive samples. The east end contains the Hot Cell Facility, Room 11A. The Hot Cell Facility is the newest addition and contains six cells with manipulators for instrument analysis of high-dose rate samples. The multi-curie section contains four older cells with manipulators. These cells are generally used to develop remote analytical methods and procedures.

The partial basement includes tunnels containing service piping and vacuum pumps, a counting room, an instrument maintenance shop, and a scanning electron microscope laboratory.

The second floor includes the ventilation supply fans, supply and exhaust ductwork, the ventilation system control room, an electrical shop, a manipulator repair shop, and storage areas.

222-SA Standards Laboratory--The 222-SA Laboratory is a five-wide trailer located southeast of the 222-S Building. Non-radioactive standards are prepared in part of this laboratory. Non-radiological process development work is done in the other section of the laboratory.

222-SB Filter Building--The 222-SB Filter Building, located south of the 222-S Building, houses 96 high-efficiency particulate air (HEPA) filters to provide final filtration for the 222-S Laboratory. Under normal operation of the ventilation system, three electrically powered fans exhaust air from the 222-S Laboratory. Exhaust air leaves the 222-SB Filter Building through the 296-S-21 stack. If exhaust plenum differential pressure becomes too low, supplementary exhaust ventilation will be provided through the 222-SE Filter Building via direct drive diesel powered exhaust fan.

222-SC Filter Building--The 222-SC Filter Building, located north of the 222-S Building, contains the second- and third-stage HEPA filtration for hot cells 1-A, 1-E-1, 1-E-2, 1-F, and 11-A-1 through 11-A-6. The hot cells in rooms 1-A, 1-E, 1-F, and 11-A are serviced by the main building supply and exhaust ventilation. The 222-SC Filter Building houses five parallel pairs of HEPA filters, which provide filtration to hot cell exhaust air before it enters the main exhaust plenum and final filtering in the 222-SB and 222-SE Filter Buildings.

222-SE Filter Building--The 222-SE Filter Building, located south of the 222-S Building, is a facility that houses 56 HEPA filters. This building provides redundant backup filtering capabilities for the 222-S Laboratory exhaust utilizing a diesel powered exhaust fan.

212-S Gas Storage Docks--Storage areas, located on the south side of the 222-S Laboratory, will accommodate a large number of gas cylinders that support instruments in the laboratories. These docks allow separation of the cylinders into new and used, and into flammables and oxidizers.

Chemical Storage Unit (CSU)--The CSU (HS-0065) is located north of 222-SA Building and provides safe storage of bulk chemicals. It is divided into two sections for separate storage of flammables and all other chemicals. The sections have numerous sump areas to prevent incompatible chemicals from mixing in case of accidental breakage.

CFX Pit--The CFX Pit is located to the south of 222-SB Filter Building. It is a 5.2 m (17 ft) deep pit with 3.7 m (12 ft) of water shielding two 252Cf sources which support delayed neutron activation analysis. These sources are encapsulated in Department of Transportation (DOT) special forms containers. Because the 252Cf material is in DOT special forms containers, they are excluded from the 222-S Laboratory source term per DOE-STD-1027-92.

Waste Handling Facilities:

Those facilities dedicated to the processing, storage, or handling of wastes from the 222-S Laboratory and auxiliary buildings are described in the following paragraphs.

207-SL Retention Basin--The 207-SL retention basin, located northeast of the 222-S Laboratory, provides temporary hold-up of wastewater with a low potential for having radioactive or hazardous constituents prior to discharge to the Treated Effluent Disposal Facility (TEDF) or the Effluent Treatment Facility (ETF). This facility is comprised of two below-grade 94,635-L (25,000-gal) compartments and three above-grade 75,708-L (20,000-gal) tanks. This facility allows batch collection, sampling, and discharge of the waste, provided the wastewater meets release/acceptance criteria. Water not meeting the release criteria will normally be transferred to the holding tanks and an action plan for disposal will be developed.

225-WB--The 225-WB Building houses the electronic interface to the TEDF.

218-W-7 Dry Waste Burial Ground--The 218-W-7 Dry Waste Burial Ground is located southeast of the 222-S Building. This underground tank was removed from service before 1975. It was used primarily for disposal of contaminated dry hood waste generated by the 222-S Laboratory. It is classified as a CERCLA site in Operable Unit RO3. This site has been assigned to the environmental restoration contractor for cleanup.

219-S Waste Handling Facility--The 219-S Waste Handling Facility, located north of the 11-A hot cell addition to the 222-S Building, collects liquid mixed waste generated by the 222-S Laboratory operations. This facility consists of a below-grade containment vault, an operations building, and an attached concrete-walled sample gallery. The containment vault is divided into two sections, called cells A and B, which contain the liquid waste tanks and a moisture de-entrainer tank. The waste tanks are vented through the de-entrainer and a HEPA filter to the atmosphere via the 296-S-16 stack. The operations building contain the operating gallery, the pipe trench, and a tank of caustic that is used to neutralize the waste tanks. The concrete sample gallery contains the waste sampling hood, which is vented through HEPA filtration to the atmosphere via the 296-S-23 stack. This area is classified as a Resource Conservation and Recovery Act (RCRA) treatment, storage and disposal (TSD) facility.

222-SD Solid Waste Handling/Storage System--The 222-SD Solid Waste Handling/Storage System, located north of the 222-S Building, is a concrete-shielded drum storage area. This area is used for temporary storage of radioactive waste drums before transfer to the burial ground.

222-S Permitted Treatment, Storage, and Disposal (TSD) Area--This area consists of two metal storage lockers (HS-0082 and HS-0083) sited on a concrete pad north of the 222-S Building, which can store drums of radioactive waste, mixed waste and non-radioactive dangerous waste.

The drums are stored until transferred to the Hanford Central Waste Complex (mixed waste) or offsite for disposal.

Administrative and Office Buildings

The following are administrative office buildings:

- 2704-S Building: Management and Analytical Project Management offices
- MO-037: Chemists offices
- MO-039: Analytical Process Development offices
- MO-924: Inorganic chemists' offices
- MO-291: QA and Laboratory Support Services

MO-028: Radiological Control

Attachment 9 -List of Instruments Currently Available at the 222-S Laboratory

Instrument Name	Manufacturer	Model Name/Type	ModelNumberName
GAS CHROMATOGRAPH	AMETEK	Quadrupole GC MS	D100MPBD
Total Inorganic Carbon Analyzer	COULOMETRICS	INOANIC CARBON	CM140
TOC-IR	DOHRMANN	Carbon	DC190
ANALYZER	IRD	Vibration	350
ANALYZER	MALVERN	Particle size analyzer	MASTER SIZER 2000
TGA	METTLER	Thermogravimetric	TG50
Total Inorganic/Organic Carbon Analyzer	OI ANALYTICAL	Carbon Analytzer	1020A
ANALYZER	OLYMPUS	Color Video	VA2
ANALYZER	OMNIMARK	Moisture	MARK1
ANALYZER	PERKIN ELMER	Electrochemical	PARSTAT 2263
ANALYZER	QUESTRON	Microwave Moisture	QMAS1750
DSC/TGA	TA INSTRUMENTS	TGA Thermogravimetric	2050
DSC/TGA	TA INSTRUMENTS	TGA Thermogravimetric	2050
ANALYZER	TEKTRONIX	Logic	LA501W
ATTRITOR	SZEGVARI	?	01HD
AUTO SAMPLER	JOBIN YVON	ICP Autosampler	AS421
AUTOSAMPLER	HEWLETT PACKARD	Auto Inject	7673
ANALYTICAL BALANCE	METTLER	Analytical	AT201
ANALYTICAL BALANCE	METTLER	BALANCE	AT261
ANALYTICAL BALANCE	METTLER	Analytical	AT201
ANALYTICAL BALANCE	METTLER	BALANCE	AT261
ANALYTICAL BALANCE	METTLER	5 Place	H54AR
BALANCE	VOLAND	Analytical/Digital	3000
BENDER	GREENLEE	Electric	5556
ALPHA/BETA COUNTER	GAMMA PRODUCTS	ALPHA-BETA SYSTEM	G 4000
CALORIMETER	FAUSKE AND ASSOCIATES	CALORIMETER	CALORIMETER
CAMCORDER	SONY	Digital	DCR-TRV530
CAMCORDER	SONY	Video Cassette	CCDTR96
CAMERA	BRONICA	CAMERA	S2
CAMERA	HASSELBLAD	STILL	503CX
CAMERA	KODAK	DIGITAL CAMERA	DX4900
CAMERA	KODAK	DIGITAL	DC260
CAMERA	PANASONIC	VIDEO	AG450
CAMERA	SONY	CCD VIDEO	DXC960
CAMERA SYSTEM	OLYMPUS	35MM	PM10AD
CHILLER	THERMO NESLAB	RECIRCULATING	M75
GAS CHROMATOGRAPH	HEWLETT PACKARD	GC	5890A
GAS CHROMATOGRAPH	HEWLETT PACKARD	GC	5890A
GAS CHROMATOGRAPH	HEWLETT PACKARD	GC	5890A

GAS CHROMATOGRAPH	HEWLETT PACKARD	GC	5890A
GAS CHROMATOGRAPH	HEWLETT PACKARD	GC	5890A
GAS CHROMATOGRAPH	HEWLETT PACKARD	GC	5890A
GAS CHROMATOGRAPH	HEWLETT PACKARD	GC	5890A
GAS CHROMATOGRAPH	HEWLETT PACKARD	GC	5890A
CONTAINER	IDEAL ENVIRONMENTAL	CONTAINER	CONTAINER
CONTROL UNIT	HEWLETT PACKARD	DATA ACQUISITION	3497A
COULOMETER	COULOMETRICS	COULOMETER	COULOMETER
COULOMETER	UIC	CARBON	5012
LIQUID SCINTILLATION COUNTER	BECKMAN	LIQUID SCINTILLATION	LS6000LL
LIQUID SCINTILLATION COUNTER	BECKMAN	LIQUID SCINTILLATION	LS6500
ALPHA/BETA COUNTER	GAMMA PRODUCTS	ALPHA/BETA	G5050/40
ALPHA/BETA COUNTER	GAMMA PRODUCTS	ALPHA/BETA	G5050/40
ALPHA/BETA COUNTER	GAMMA PRODUCTS	ALPHA/BETA	G5050
ALPHA/BETA COUNTER	GAMMA	W/WA64000	G4000
ALPHA/BETA COUNTER	GAMMA PRODUCTS	ALPHA/BETA	G4050
ALPHA/BETA COUNTER	GAMMA PRODUCTS	ALPHA/BETA	G4050
DENSITY METER	ANTON PAAR	DIGITAL	DMA512P
DENSITY METER	ANTON PAAR	DIGITAL	DMA58
GEA DETECTOR	E G & G	GERMANIUM COAXIAL	101285210
GEA DETECTOR	E G AND G	GERMANIUM COAXIAL	101285210
GEA DETECTOR	E G AND G ORTEC	GERMANIUM	GEM50210P
GEA DETECTOR	E G AND G ORTEC	GERMANIUM	GEM50210P
Mass Spectrometer Detector	HEWLETT PACKARD	MSD QUADRUPOLE	5971A
GEA DETECTOR	NUCLEAR DATA	DETECTOR	DETECTOR
GEA DETECTOR	ORTEC	GAMMA-X	GMX-25200
DETECTOR	S CUBED	HALOGEN	LMP10
GEA DETECTOR	E G AND G ORTEC	GAMMA-X	GMX35200X
DIFFRACTOMETER	RIGAKU	DIFFRACTOMETER	DIFFRACTOMETER
DISK DRIVE	ANDROMEDA	WINCHESTER	WDS105
EDS SYSTEM	KEVEX	X-RAY	3890
ELCD	OI	Electrolytic Conductivity Detector	GC Detector
ELECTRON DIFFRACTION SYSTEM	ORPHEUS	ELECTRON BACKSCATTERED	700P132498
ELECTROPHORESIS SYSTEM	BECKMAN	CAPILLARY ZONE	144001
ENGRAVING MACHINE	DAHLGREN	ENGRAVER	100
EXTRACTOR	DIONEX		ASE200

EXTRACTOR	SUPREX	SUPERCritical FLUID	AUTOPREP 44
LIQUID NITROGEN FILL SYSTEM	E G AND G ORTEC	LIQUID NITROGEN	7494S
LIQUID NITROGEN FILL SYSTEM	E G AND G ORTEC	LIQUID NITROGEN	7494S
LIQUID NITROGEN FILL SYSTEM	E G AND G ORTEC	LIQUID NITROGEN	7494S
FLAT FIELD POLYCHROMATOR	HORIBA	OPTICAL INTERFACE	POLY
GAS CHROMATOGRAPH	AGILENT	GC/ECD	6890
GAS CHROMATOGRAPH	AGILENT	GC/ECD	6890
GEA CAVE	GAMMA PRODUCTS	GEA CAVE	G-3000
GENERATOR SYSTEM	ATI UNICAM	VAPOR	VP90
GENERATOR	BALSTON	NITROGEN GAS	7592
HEATING STAGE	LEITZ	HEATING STAGE	HEATING STAGE
HOLOPROBE	KAISER OPTICAL	LASER	HP785250
HOMOGENIZER	PRO SCIENTIFIC INC	HOT CELL OPS	PRO400
INDUCTIVELY COUPLED PLASMA MASS SPECTROMETER	THERMO ELEMENTAL	PLASMA QUAD EXCELL	460002415
INSTRUMENT CONTROLLER COMPUTER	GAMMA PRODUCTS	INSTRUMENT CONTROLLER	CONTROLLER
INSTRUMENT CONTROLLER COMPUTER	GAMMA PRODUCTS	INSTRUMENT CONTROLLER	CONTROLLER
LASER	SDL	TUNABLE	8630
LASER	SDL	TUNABLE	8630
METER	KYOTO ELECTRIC	THERMAL CONDUCTIVITY	OTMD3
MICROSCOPE	ASPEX LTD	SCANNING ELECTRON	40P00608
MICROSCOPE	JEOL	SCANNING ELECTRON	JSM35CF
MICROSCOPE	LEITZ	MICROSCOPE	MICROSCOPE
MICROSCOPE	NICOLET INSTRUMENTS	NIC-PLANE IR	49150
MICROSCOPE	NIKON	STEREO	SMZT2
MICROSCOPE	PROJECTINA		4014/BK2
MICROSCOPE	WILD HEERBRUGG		M5A
MILL	FRITSCH	PLANETARY	P5
MIXER	CHARLES ROSS AND SON	DOUBLE PLANETARY	LDM1PT
OSCILLISCOPE	FLUKE	DIGITAL STORAGE	3323413
OSCILLOSCOPE	TEKTRONIX	MAIN FRAME	7904
PRINTER	SONY	COLOR VIDEO	UP7100MD
PRINTER	ZEBRA	BARCODE	14040100004
PROBE	CERAM OPTIC	FIBER OPTIC	NIR
PROJECTOR	SHARP	LCD	XGNV3XU
PUMP	WARREN RUPP	PUMP	PUMP
PURIFICATION SYSTEM	MILLIPORE	WATER	ZD60115UV
PYCROMETER	MICROMERITICS	AUTOMATIC GAS	1330
RATE VISCOMETER SYSTEM	HAAKE	CONTROLLED	RV20

RECORDER	JVC	VIDEO CASSETTE	HRJ410U
RECORDER	JVC	VIDEO CASSETTE	BRS600U
RF GENERATOR	RF POWER PRODUCTS	SOLID STATE	ICP20P
SAMPLE PREPARATION SYSTEM	CEM	MICROWAVE	MDS2100
SAMPLER	DIONEX	AUTOSAMPLER	AS50
SAMPLER	DIONEX	AUTOSAMPLER	AS50
AUTOSAMPLER	HEWLETT PACKARD	AUTOMATIC	7673A
AUTOSAMPLER	HEWLETT PACKARD	AUTOMATIC	7673A
AUTOSAMPLER	HEWLETT PACKARD	AUTOMATIC	7673A
SAMPLER	TN TECHNOLOGIES	FLOW	6900
SPECTROMETER	CHROMEX	FLUORESCENCE/RAM AN	S101035
SPECTROMETER	CHROMEX	IMAGING	250IS
SPECTROMETER	GVC SCIENTIFIC	ATOMIC ABSORPTION	932 PLUS
SPECTROMETER	NICOLET INSTRUMENT	INFRARED	550
SPECTROMETER	THERMO JARRELL ASH	PLASMA	61E
ICP/MS	THERMO JARRELL ASH	POEMS	POEMS
SPECTROPHOTOMETER	PERKIN ELMER	GFAA/Cold Vapor	5100
SPECTROPHOTOMETER	POLYTEC PI	SPECTROPHOTOMETER	XDAP10
SPECTROPHOTOMETER	SPECTRONIC	SPECTROPHOTOMETER	601
STIRRED REACTOR	PRESSURE PROD	STIRRED REACTOR	STIRRED REACTOR
TEST KIT	WESTINGHOUSE	AMPTSTOR TRIP	S104D481G03
TITRATOR	METROHM	AUTO	682
TITRATOR	METROHM	TITRATOR	751
TITROPROCESSOR	BRINKMANN		682
TITROPROCESSOR	BRINKMANN		682
Purge and Trap	OI ANALYTICAL	GC P/T	4560
Purge and Trap	OI ANALYTICAL	GC P/T	4560
VISCOMETER	BOHLIN		BV88
VISCOMETER	HAAKE		RV30
VISCOMETER	HAAKE		RV30
WATER SYSTEM	MILLIPORE		2100